PART A

IONOSPHERIC DATA

ISSUED
MAY 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 213
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
22 May 1962

IONOSPHERIC DATA

CONTENTS

IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and dissemination of ionospheric and related geophysical data. While originally a by-product of the collection of data by the CRPL for use in radio propagation studies, the CRPL-F series bulletins, Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," have provided useful service by collecting and making available a wide variety of data in convenient form for use in research, not only on radio propagation and the ionosphere, but also on a wide variety of geophysical problems. Beginning with CRPL-F 211, Part A, "Ionospheric Data," a number of changes have been made in the tables of ionospheric data which, by providing more information, should increase their usefulness.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into median determination (count) for all ionospheric characteristics listed. Also, the upper and lower quartile values, indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and (M3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods, which, by improving the speed and efficiency of preparation, permit earlier publication of the data.

Graphs of critical frequencies and (M3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. This change was necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are still available from the CRPL and the IGY World Data Center A for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F-series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with original data. The tables and graphs now show the ionospheric data just as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data now rests entirely with the originator.

Gaps in the tables when data normally might be expected indicate the data were not provided by the originator. Following the recommendation of the World-Wide Soundings Committee, only values of median foEs are listed. In the few cases where fEs is still reported instead of foEs, the data will not be printed. Data will appear in the F-series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1961, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	9	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51		
1962												

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, FoE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
(M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

The ionospheric data given here in tables 1 to 100 and figures 1 to 100 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL prediction of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data in this issue:

Republica Argentina, Ministerio de Marina:
Buenos Aires, Argentina
Decepcion I.

Commonwealth of Australia, Department of the Interior:
Macquarie I.

Commonwealth of Australia, Ionospheric Prediction Service of the Commonwealth Observatory:
Canberra, Australia

Belgian Royal Meteorological Institute:
Lwiro (Central African Institute for Scientific Research)

Universidad Mayor de San Andres:
La Paz, Bolivia

British Department of Scientific and Industrial Research, Radio Research Board:
Falkland Is.
Halley Bay
Inverness, Scotland

Defence Research Board, Canada:
Alert, Canada
Clyde, Baffin I.

Universidad de Concepcion:
Concepcion, Chile

Danish National Committee of URSI:
Godhavn, Greenland
Narssarssuaq, Greenland

French National Center for Telecommunications Studies:
Casablanca, Morocco
Dakar, French West Africa
Djibouti, French Somaliland
Kerguelen I.
Poitiers, France
Tamanrasset, French West Africa
Tananarive, Madagascar

Institute for Ionospheric Research, Lindau Uber Northeim, Hannover, Germany:
Tsumeb, South West Africa

Ionospheric Institute, Breisach, Germany:
Freiburg, Germany

The Royal Netherlands Meteorological Institute:
Paramaribo, Surinam

Icelandic Post and Telegraph Administration:
Reykjavik, Iceland

Indian Council of Scientific and Industrial Research, Radio Research Committee, New Delhi, India:
Ahmedabad (Physical Research Laboratory)
Bombay (All India Radio)
Calcutta (Institute of Radio Physics and Electronics)
Delhi (All India Radio)
Kodaikanal (India Meteorological Department)
Madras (All India Radio)
Tiruchy (All India Radio)
Trivandrum (All India Radio)

Christchurch Geophysical Observatory, New Zealand Department of Scientific and Industrial Research:
Campbell I.
Cape Hallett (Adare), Antarctica

Telecommunication Administration, Oslo, Norway:
Svalbard, Norway

Manila Observatory:
Baguio, P. I.

Royal Board of Swedish Telegraphs, Radio Department, Stockholm, Sweden:
Lulea, Sweden

United States Army Signal Corps:
Grand Bahama I.

National Bureau of Standards (Central Radio Propagation Laboratory):
Anchorage, Alaska
Boulder, Colorado
Byrd Station, Antarctica
Fairbanks (College), Alaska (Geophysical Institute of the University of Alaska)
Huancayo, Peru (Instituto Geofisico de Huancayo)
Maui, Hawaii
Point Barrow, Alaska
Pole Station, Antarctica

TABULATIONS OF ELECTRON DENSITY DATA

Reduction of hourly ionospheric vertical soundings to electron density profiles has become a part of the systematic ionospheric data program of the Central Radio Propagation Laboratory, National Bureau of Standards. Scalings of ionograms for this purpose are being provided by ionosphere stations operated by several stations associated with CRPL. For the present, the hourly profile data from one CRPL station, Puerto Rico, are appearing in the monthly CRPL-F Reports, Part A. The very considerable task of scaling the ionograms for this purpose is being undertaken by T. R. Gilliland, Engineer in Charge, Puerto Rico Ionosphere Sounding Station; the computations are performed at the NBS Boulder Laboratories by a group headed by J. W. Wright. Basic conversion of virtual to true heights uses the well-known matrix method developed by K. G. Budden of the Cavendish Laboratory, Cambridge University, programmed by Dr. H. H. Howe for a CDC-1604 computer.

The tabulations provide the following basic electron density profile data for each hour of each day of the month:

Quantity	Units	Remarks
Electron Density (N)	$x10^3$ = electrons/cm^3	Body of table; given at each 10 km of height.
NMAX	$x10^3$ = electrons/cm^3	Always the highest value of N at each hour. To maintain this rule, the electron density at the next 10 km increment above HMAX is always given as exactly equal to NMAX (unless HMAX coincides with a 10 km level).
QUALification	(Alphabetic)	A standard scaling letter qualifying the observation when necessary.
KP		The standard Kp magnetic index, to one digit.
HMIN	Kilometers	The height of zero or very low electron density, obtained by linear extrapolation of the electron density vs. height curve.
SCAT	Kilometers	One half of the half-thickness of the parabola best fitting the upper portion of the F region profile. Approximates the scale height near the level HMAX.
HMAX	Kilometers	The height of maximum electron density, determined by fitting a parabola to the upper portion of the profile.
SHMAX	$x10^{10}$ = electrons/cm^2 column.	Obtained by integration of the profile between the limits HMIN and HMAX.

Tabulations of the average electron densities each hour, at each 10 km level, for the quiet ionosphere, are also given. These averages include the profiles obtained when the magnetic character figure Kp is 4+ or less. The number of profiles entering the average for each hour is given by CNT. The other parameters of the layer, HMIN, SCAT, HMAX, SHMAX, and the mean value of Kp are given for each hour.

Before the averaging process, the individual profiles are extrapolated above HMAX by a Chapman distribution of 100 km scale height. This assumed model seems to agree well with the few published measurements dealing with the topside profile of the F-region.* Extrapolation is necessary in order to calculate homogeneous averages near HMAX and the average profiles are, in fact, given up to 950 km. Also given are the average estimated integrated electron densities to infinity, SHINF (same units as SHMAX); this is an approximation to the total electron content in a column of the ionosphere.

*See Wright, J. W. "A Model of the F-Region Above HMAX F2" J.Geophys.Res. V.65, pp.185-191.

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 1 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A3	A3	A1	1	1	1	1	S1	1	1	A1	A1
HMIN	221	256	251	226	211	197	197	110	110	109		
SCAT	27.4	35.8	35.7	31.9	27.6	44.3	38.1	41.7	32.5	31.2		
HMAXF	280	323	323	290	266	296	285	259	245	242		
SHMAX	82	100	112	103	69	99	73	152	307	459		
KM												
330		222	235									
320		221	235									
310		214	228									
300		198	211	247		162						
290	225	172	186	247		161	134					
280	225	132	152	241		157	134					
270	217	78.3	109	222	190	148	129					
260	194	28.7	51.1	192	188	136	120	224				
250	152			144	173	118	105	221	515	842		
240	91.7			79.1	146	95.9	86.9	211	511	841		
230	39.1			27.8	104	72.7	66.9	196	486	811		
220					53.1	50.1	47.5	173	436	739		
210						30.2	29.6	142	365	603		
200						12.4	12.4	110	290	445		
190								84.2	224	313		
180								63.5	172	238		
170								49.8	133	198		
160								40.4	107	165		
150								33.9	90.9	136		
140								30.4	81.0	118		
130								28.7	72.3	108		
120								26.0	61.9	91.1		
110								13.0	12.4	39.4		

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 1 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	1	A0	A0	A0	A2	A2	A2	3	3	3	2
HMIN		110	109	109	110			209	217	214	209	217
SCAT		24.2	47.1	32.5	34.9			30.6	35.0	34.4	33.4	45.5
HMAXF		224	244	243	249			266	293	281	270	304
SHMAX		355	400	398	385			123	114	106	80	84
KM												
310												142
300									235			142
290									235	243		139
280									227	243		133
270								311	208	237	190	123
260								309	183	220	186	109
250			491	621	591			291	150	191	174	89.4
240			491	620	580			256	108	145	152	65.7
230		651	481	596	545			206	57.9	84.5	120	42.4
220		647	461	544	486			128	19.9	34.2	73.1	16.2
210		600	427	460	404			26.0			12.4	
200		499	386	362	319							
190		383	336	293	254							
180		309	293	248	214							
170		267	256	218	183							
160		239	231	194	157							
150		212	209	173	135							
140		185	184	155	114							
130		153	148	127	103							
120		128	131	102	89.9							
110		12.4	36.6	12.4	12.4							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 2 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	3	3	3	3	3	S3	2	A2	A2	A2
HMIN	218	227	257	229	240	227	240		109			
SCAT	58.6	46.9	60.5	38.9	37.1	46.6	33.0		31.4			
HMAXF	321	322	365	299	308	311	314		244			
SHMAX	101	77	111	97	86	96	107		320			
KM												
370			153									
360			153									
350			151									
340			147									
330	142	123	140									
320	142	123	133			167	236					
310	141	121	120		183	166	236					
300	137	116	99.6	205	181	164	226					
290	132	109	77.4	202	172	158	206					
280	125	97.5	54.5	193	157	148	174					
270	115	83.5	32.4	178	134	133	133					
260	100	67.1	15.3	148	101	111	81.3					
250	80.1	50.0		105	61.0	82.3	40.0		616			
240	57.3	30.6		54.0	.4	51.7	3.9		613			
230	33.6	12.4		12.4		19.9			584			
220	12.4								523			
210									420			
200									289			
190									190			
180									140			
170									112			
160									91.8			
150									78.4			
140									72.1			
130									60.1			
120									54.1			
110									12.4			

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 2 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	A2	A1	1	1	1	S1	1	0	0	0	0
HMIN			109	110	109	109	113	199	200	237	218	239
SCAT			39.1	51.0	42.2	37.2	29.1	37.5	45.9	33.6	37.1	29.7
HMAXF			258	269	263	268	258	286	285	321	292	294
SHMAX			551	517	487	416	295	213	156	107	110	95
KM												
330										214		
320										214		
310										209		
300										193	225	254
290								409	258	170	224	253
280								406	257	141	219	240
270				583	648	621		390	251	106	205	212
260			808	578	647	613	681	359	238	72.8	184	162
250			799	562	632	583	670	313	220	41.8	153	92.4
240			764	533	599	529	619	251	195	16.2	113	23.4
230			702	497	547	458	530	176	164		63.7	
220			600	452	482	372	398	113	130		18.4	
210			469	395	404	293	241	58.5	81.3			
200			356	344	331	229	103	12.4	12.4			
190			289	302	274	182	43.3					
180			253	266	229	147	31.9					
170			226	233	194	120	27.1					
160			202	202	165	100	24.4					
150			180	171	141	84.4	22.7					
140			148	141	122	75.2	21.7					
130			134	124	107	70.8	21.1					
120			113	117	94.7	68.5	20.2					
110			12.4	12.4	24.5	24.1						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 3 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	0	F0	0	0	1	A1	S1	1	A1	A1	0
HMIN	209	218	237	244	219	218	214		110		109	109
SCAT	42.5	48.5	35.4	32.5	30.8	37.3	35.0		32.2		27.8	21.5
HMAXF	286	326	321	313	274	303	287		249		226	237
SHMAX	83	139	129	125	105	119	109		323		300	383
KM												
330		204	246									
320		203	246	284								
310		198	240	283		226						
300		189	223	272		225						
290	154	175	199	247		219	235					
280	153	158	167	212	283	204	233					
270	148	137	135	167	282	183	221					
260	139	113	96.5	85.0	269	154	200					
250	126	88.8	57.5	32.2	242	120	166		562			
240	108	60.0	19.9		188	83.8	121		550			737
230	81.2	33.6			97.3	44.6	71.8		513		575	717
220	44.4	12.4			12.4	16.5	30.7		443		567	621
210	12.4								348		525	460
200									263		432	329
190									198		308	274
180									151		235	253
170									120		198	238
160									98.3		155	218
150									86.6		127	156
140									79.7		117	132
130									63.5		112	124
120									52.4		109	119
110									12.4		27.3	39.4

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 3 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A0	A0	1	A1	1	1	S1	1	0	0	0	0
HMIN	110	110	110	110	110	111		201	209	234	218	201
SCAT	30.5	52.5	50.9	35.0	32.6	41.3		37.2	38.7	32.0	27.1	25.0
HMAXF	222	246	260	247	245	249		270	287	304	265	246
SHMAX	306	416	467	373	345	319		111	95	98	82	56
KM												
310										225		
300										224		
290									187	213		
280								236	185	192		
270			539					236	178	159	251	
260			539					232	164	114	249	
250		501	534	501	564	489		219	144	65.2	233	184
240		499	518	495	561	483		197	113	28.0	192	182
230	517	489	492	466	534	462		167	77.2		112	167
220	517	470	456	425	481	427		118	41.8		30.1	132
210	498	442	403	376	396	370		54.6	12.4			57.2
200	452	403	348	327	306	289						
190	386	357	302	284	239	219						
180	317	311	270	248	195	168						
170	257	272	246	219	165	134						
160	230	241	227	195	140	112						
150	185	213	206	176	117	95.0						
140	146	156	151	159	106	82.3						
130	132	134	133	127	101	75.9						
120	102	107	97.3	99.7	91.3	53.8						
110	12.4	12.4	12.4	12.4	12.4							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 4 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	0	0	F0	0	1	1	S1	0	A0	A0	A0
HMIN	206	243	259	249	241	241	218	110	110		110	
SCAT	52.0	45.4	37.5	31.7	38.1	36.0	36.1	34.1	23.6		23.0	
HMAXF	295	337	338	320	317	312	303	251	232		225	
SHMAX	74	94	96	95	96	78	88	137	222		302	
KM												
340		152	190									
330		151	188									
320		146	180	215	186	163						
310		138	164	210	184	163	170					
300	117	126	139	194	176	158	170					
290	117	110	110	168	161	148	165					
280	114	90.6	77.2	130	142	130	154					
270	110	70.4	41.8	85.3	120	105	135					
260	104	49.0	12.4	42.6	85.2	75.6	109	238				
250	95.3	25.0		12.4	39.2	45.0	82.7	238				
240	84.5						57.3	233	450			
230	66.3						32.6	216	449		619	
220	41.0						12.4	192	420		612	
210	18.4							161	353		555	
200								121	265		438	
190								82.7	196		300	
180								55.9	151		232	
170								40.5	116		206	
160								31.2	94.0		181	
150								26.1	80.3		153	
140								23.4	73.9		131	
130								22.2	67.9		115	
120								21.1	51.3		103	
110								13.0	12.4		12.4	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 4 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A0	0	A0	0	0	A0	S0	A0	0	0	0	0
HMIN	109	109	109	110	110	110		199	208	229	219	201
SCAT	23.9	30.6	55.5	32.3	33.9	32.1		30.7	39.2	33.4	30.0	41.1
HMAXF	229	233	274	246	241	247		266	279	282	281	261
SHMAX	325	339	499	423	355	270		91	68	64	75	54
KM												
290										170	184	
280			524						142	169	184	
270			523					222	140	164	178	118
260			515					220	133	152	161	118
250			499	669	591	482		207	122	125	133	116
240		517	477	664	591	477		182	102	65.3	96.4	110
230	567	516	439	630	575	449		141	72.2	12.4	48.4	101
220	546	495	391	563	535	401		91.1	40.2		12.4	85.4
210	475	445	342	463	461	329		43.5	12.4			52.9
200	382	378	298	357	359	239		12.4				
190	309	316	267	283	267	168						
180	263	275	246	238	209	126						
170	238	249	229	210	173	96.6						
160	222	230	213	189	149	78.0						
150	195	204	196	171	131	68.0						
140	138	166	151	160	120	62.2						
130	127	133	127	139	114	59.1						
120	106	87.1	98.5	111	91.1	57.3						
110	12.4	12.4	12.4	12.4	12.4	12.4						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 5 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A0	0	0	0	0	A0	A0	S0	0	0	A0	0
HMIN	217	268	237	217	227	202	199		110	109	109	109
SCAT	49.9	36.3	31.6	30.3	33.8	30.2	32.2		35.0	35.3	25.5	24.7
HMAXF	311	347	299	280	289	275	275		223	234	222	210
SHMAX	73	82	92	107	95	71	70		166	229	275	231
KM												
350		163										
340		161										
330		154										
320	112	140										
310	112	120										
300	111	93.0	225									
290	107	65.1	220	269	224							
280	101	37.4	205	269	220	163	150					
270	92.9	12.4	175	261	207	162	149					
260	81.8		132	239	183	153	141					
250	68.2		73.0	199	146	135	127					
240	51.1		24.0	140	90.7	109	103			358		
230	32.4			73.2	31.1	76.7	77.8		292	357	456	
220	15.3			24.0		47.3	54.8		291	344	456	
210						25.2	33.9		282	318	426	446
200							5.4		259	275	375	428
190									226	226	316	373
180									177	179	265	285
170									127	140	231	240
160									95.4	106	204	212
150									83.3	96.4	175	171
140									69.3	91.3	144	131
130									48.9	88.2	127	122
120									44.1	85.8	112	108
110									12.4	33.3	39.4	24.1

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 5 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	A0	A0	A0	0	A0	S0	0	0	A0	A0	A2
HMIN	110	109	110	110	109	109	110	201	240	206	205	198
SCAT	32.6	51.1	38.1	35.7	39.2	30.1	28.8	29.2	43.2	45.0	28.7	30.6
HMAXF	248	250	236	237	247	246	247	254	319	295	274	271
SHMAX	390	434	322	313	329	295	195	83	119	117	87	81
KM												
320									215			
310									213			
300									205	197		
290									191	196		
280									171	191	215	187
270									143	181	215	187
260								231	106	167	203	180
250	551	527			450	539	426	230	65.2	147	179	164
240	544	522	442	446	446	533	420	217	.4	122	142	137
230	509	507	439	442	428	500	390	190		91.2	93.0	99.7
220	452	488	422	422	394	438	334	138		59.3	50.0	62.3
210	373	446	390	382	353	343	245	64.7		24.1	21.3	35.3
200	309	390	347	334	303	247	153					12.4
190	269	331	302	286	256	185	92.5					
180	247	282	262	243	216	144	54.1					
170	233	250	231	213	182	119	39.3					
160	221	231	206	189	154	97.5	32.9					
150	199	210	184	166	132	80.8	29.4					
140	132	157	165	147	114	69.5	27.3					
130	123	126	118	119	100	64.5	26.3					
120	118	120	107	95.9	90.5	60.3	24.3					
110	12.4	33.0	12.4	12.4	24.5	12.4	13.0					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 6 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	A2	A0	0	0	1	1	S1	A0	A0	A0	A1
HMIN	218	243	232	210	199	205	218					
SCAT	33.5	32.7	29.8	27.3	46.9	41.4	36.6					
HMAXF	298	321	295	260	277	291	300					
SHMAX	103	101	92	78	87	92	84					
KM												
330		217										
320		217										
310		211					163					
300	214	194	232			167	163					
290	212	167	231			167	160					
280	199	132	218		155	164	151					
270	177	88.7	192	234	155	156	136					
260	149	50.6	149	234	150	143	114					
250	109	24.5	94.3	226	142	124	87.0					
240	71.0		37.9	202	131	97.2	58.7					
230	39.7			155	115	67.5	34.0					
220	12.4			66.0	87.9	41.9	12.4					
210				.4	48.8	20.2						
200					12.4							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 6 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	1	1	A1	A0	A0	A0	80	0	0	F0
HMIN			108	110	109			199		230	227	209
SCAT			36.0	28.3	27.2			47.1		43.5	30.7	30.8
HMAXF			257	250	232			267		320	299	283
SHMAX			434	422	322			82		123	121	88
KM												
330										224		
320										224		
310										220		
300										211	278	
290										197	272	196
280										172	251	195
270								162		131	215	187
260			591					161		86.6	167	169
250			586	744				157		52.7	115	140
240			559	722	636			148		28.6	59.6	107
230			510	658	635			137		1.9	19.9	75.0
220			435	530	607			108				41.8
210			351	383	534			58.2				12.4
200			288	271	400			12.4				
190			248	225	269							
180			224	200	204							
170			207	183	172							
160			194	164	149							
150			180	142	128							
140			154	131	111							
130			134	126	102							
120			122	106	95.3							
110			66.7	12.4	25.1							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 7 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	0	0	0	A0	A0	A0	A0	1	1	A1	1
HMIN	222	251	219	203	198	218	218		111	109	109	109
SCAT	32.1	35.8	44.9	25.9	35.9	33.2	37.2		67.5	36.5	30.2	24.4
HMAXF	285	325	293	245	282	295	280		253	247	251	235
SHMAX	75	115	190	82	82	89	94		238	331	371	357
KM												
330		242										
320		241										
310		232										
300		213	354			190						
290	178	186	354		156	189	214					
280	177	147	347		156	180	214					
270	168	94.0	331		151	163	211					
260	151	40.1	306		141	138	199		265		619	
250	122		270	271	125	105	179		265	446	618	
240	84.5		211	269	104	68.7	139		263	442	598	675
230	40.9		127	248	81.1	38.6	84.2		257	422	544	669
220			22.5	202	55.6	12.4	20.5		249	385	446	614
210				101	33.0				238	336	319	493
200					12.4				224	284	248	340
190									205	242	217	256
180									179	213	191	228
170									148	191	158	210
160									117	172	133	190
150									95.2	155	122	162
140									74.3	141	115	139
130									56.1	119	111	129
120									51.9	89.7	108	124
110										29.7	27.3	33.3

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 7 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	A1	A1	A1	A1	2	A2	A2	A1	1	1	1
HMIN	108				110	109		208	249	219	226	201
SCAT	38.6				30.8	48.3		44.5	31.7	22.4	35.2	31.0
HMAXF	234				239	254		297	320	272	301	265
SHMAX	331				327	301		86	86	92	137	109
KM												
320									196			
310									191		283	
300								146	176		283	
290								145	152		276	
280								140	119	297	256	
270								132	79.9	297	228	271
260						407		120	41.8	275	191	270
250						406		103	12.4	222	141	256
240	469				562	399		82.1		138	79.2	229
230	468				549	382		57.5		55.5	27.8	180
220	454				510	359		33.5		12.4		111
210	426				428	319		12.4				47.7
200	375				325	266						
190	307				246	210						
180	257				203	165						
170	234				177	131						
160	212				156	109						
150	177				133	91.6						
140	147				110	76.9						
130	135				97.9	70.3						
120	131				88.6	60.7						
110	39.4				12.4	12.4						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 8 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	F1	F1	F1	F1	F1	S1	A1	A1	A1	A2
HMIN	206	237	255		204				110			
SCAT	44.1	39.0	34.6		25.8				42.8			
HMAXF	289	324	325		261				250			
SHMAX	125	120	102		100				268			
KM												
330		225	226									
320		224	225									
310		217	216									
300		202	197									
290	215	180	170									
280	213	150	131									
270	205	113	71.0		270							
260	192	74.3	29.2		270							
250	173	41.3			257				371			
240	150	16.0			224				366			
230	120				183				351			
220	82.6				125				325			
210	30.2				44.2				290			
200									247			
190									202			
180									164			
170									133			
160									109			
150									93.5			
140									86.8			
130									62.4			
120									50.3			
110									12.4			

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 8 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	A2	A1	1	1	A0	A0	A0	A1	1	F1	1
HMIN	108			108	109			199	229	259		200
SCAT	32.4			23.7	29.3			33.0	39.0	45.3		32.1
HMAXF	214			224	247			268	316	335		257
SHMAX	242			278	352			73	71	109		75
KM												
340										195		
330										194		
320									129	189		
310									129	180		
300									124	165		
290									115	144		
280									102	116		
270								163	86.1	76.3		
260								161	67.4	22.1		186
250					577			152	46.3			184
240					569			135	26.8			173
230				507	526			107	3.1			152
220	390			504	456			77.3				118
210	389			465	358			48.7				69.4
200	373			381	274			12.4				12.4
190	339			292	222							
180	284			236	193							
170	244			205	173							
160	219			183	156							
150	196			161	139							
140	153			142	117							
130	127			120	101							
120	116			108	93.0							
110	40.4			49.1	29.7							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 9 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	F1	0	F0	F0	F1	F1	S1	2	2	2	2
HM1N	238	219	203	201	241	208	209	110	110	108	109	108
SCAT	36.9	35.8	27.0	27.0	30.6	40.9	36.6	38.3	27.6	35.3	28.7	31.5
HMAXF	317	287	256	245	306	289	288	250	228	244	234	227
SHMAX	101	83	90	49	49	77	49	93	185	316	336	319
KM												
320	196											
310	194				113							
300	185				112							
290	169	186			105	142	94.1					
280	149	184			92.7	141	92.9					
270	124	176			76.6	135	88.3					
260	92.0	160	269		54.6	125	80.2	142				
250	49.6	133	266	156	29.3	111	69.5	142		491		
240	16.5	91.5	246	155		91.4	55.3	140		490	588	
230		42.6	206	145		64.0	39.7	133	326	472	585	522
220		12.4	119	123		37.3	25.5	120	319	436	553	515
210			39.0	63.7		12.4	3.1	103	290	374	484	485
200								82.5	244	295	372	418
190								63.2	199	232	272	324
180								48.5	158	192	226	256
170								36.6	125	162	203	223
160								29.1	101	134	181	202
150								25.5	85.2	111	156	180
140								23.8	77.9	96.9	136	152
130								23.0	72.6	88.2	113	131
120								21.9	50.6	83.9	105	121
110								13.0	12.4	68.8	41.8	80.4

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 9 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	A2	A3	3	3	A2	A2	A2	A4	A4	F4	A6
HM1N				109	110			200	200	198	237	209
SCAT				46.8	41.2			34.9	40.2	38.6	30.7	40.2
HMAXF				260	252			255	276	293	302	294
SHMAX				371	345			79	80	79	82	95
KM												
310											193	
300										134	193	170
290										134	186	170
280									148	131	168	165
270									147	123	143	155
260				430	469			195	142	110	109	141
250				425	469			194	132	94.8	64.3	123
240				411	459			186	118	78.9	21.6	99.2
230				385	436			171	98.2	63.0		72.3
220				353	398			140	75.8	46.5		41.2
210				316	347			84.6	52.7	31.0		12.4
200				278	290			12.4	12.4	12.4		
190				244	238							
180				217	201							
170				193	174							
160				167	149							
150				142	125							
140				128	109							
130				122	98.6							
120				114	94.0							
110				25.1	12.4							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 10 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A6	6	F4	A4	F4	F6	6	S6	5	5	A5	A5
HM1N	218	269	275			199	217		109	109		
SCAT	35.3	36.8	38.7			34.9	40.6		52.5	52.1		
HMAXF	309	351	361			274	303		277	348		
SHMAX	118	155	125			93	87		282	793		
KM												
370			224									
360		309	224									
350		309	219							734		
340		302	207							729		
330		283	188							710		
320		254	167							675		
310	226	210	142				156			631		
300	222	158	110				156			582		
290	210	99.3	61.5				152			524		
280	188	45.5	26.1			184	144		285	467		
270	159	12.4				184	131		284	415		
260	124					177	114		278	369		
250	87.0					162	91.5		263	328		
240	56.8					144	65.3		249	294		
230	33.4					122	38.8		235	264		
220	12.4					94.0	16.0		220	239		
210						57.3			203	217		
200						12.4			185	199		
190									165	182		
180									143	164		
170									123	145		
160									104	125		
150									88.4	108		
140									77.6	96.3		
130									71.0	89.4		
120									66.2	85.3		
110									24.5	39.4		

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 10 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A5	A5	A5	A5	A5	A4	A4	A4	A4	A4	A4	A4
HM1N	108								198	217	217	
SCAT	35.5								39.6	32.6	34.0	
HMAXF	256								303	297	307	
SHMAX	891								240	137	159	
KM												
310									409		311	
300									408	296	309	
290									398	292	293	
280									373	275	263	
270									339	244	228	
260	1696								296	201	185	
250	1683								243	144	133	
240	1606								182	83.9	78.9	
230	1463								125	43.3	41.8	
220	1246								77.3	16.2	16.2	
210	925								39.3			
200	444								12.4			
190	252											
180	219											
170	196											
160	154											
150	119											
140	109											
130	104											
120	101											
110	90.3											

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 11 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
O,KP	A4	A4	A3	A3	F3	A2	A2	S2	2	A2	A2	A2
HMIN			224	208	200	268	237		109		106	
SCAT			29.3	30.6	43.2	38.0	43.9		39.4		35.6	
HMAXF			296	270	259	347	321		249		246	
SHMAX			94	98	48	74	90		246		382	
KM												
350						145						
340						144						
330						138	160					
320						126	160					
310						112	158					
300			233			89.3	152					
290			231			62.4	141					
280			217	247		35.8	126					
270			188	247		12.4	106					
260			139	240	98.5		76.9					
250			84.3	220	97.5		43.3		358		619	
240			47.0	186	94.0		16.2		353		615	
230			22.3	125	87.5				336		589	
220				59.4	78.9				307		540	
210				17.2	64.0				269		455	
200					12.4				223		334	
190									177		247	
180									142		210	
170									115		179	
160									95.1		129	
150									80.6		112	
140									70.0		104	
130									60.9		99.0	
120									48.6		96.4	
110									35.6		93.5	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 11 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
O,KP	A2	A2	A2	A2	A2	A2	A2	A2	2	2	2	2
HMIN			109					204	210	230	228	248
SCAT			30.0					34.6	35.9	37.8	38.9	38.0
HMAXF			241					266	283	311	316	326
SHMAX			408					74	63	70	86	83
KM												
330												163
320										135	156	162
310										135	155	156
300										133	149	144
290									135	125	138	127
280									135	113	123	102
270								176	131	95.5	104	70.0
260								174	121	73.5	80.8	38.9
250			669					166	106	49.9	52.8	12.4
240			669					150	83.1	27.7	29.0	
230			647					122	55.0	2.4	7.7	
220			589					72.5	30.4			
210			484					31.4				
200			366									
190			288									
180			249									
170			225									
160			202									
150			178									
140			157									
130			143									
120			136									
110			24.5									

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 12 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
O,KP	2	2	1	1	A1	1	1	S1	A0	0	0	A0
HMIN	221	238	208	200	198	199	209		110	109	107	
SCAT	42.5	31.5	22.1	31.7	55.2	41.5	30.3		40.8	28.8	24.9	
HMAXF	315	304	247	249	305	283	284		246	244	236	
SHMAX	97	87	73	79	73	59	48		229	301	370	
KM												
320	168											
310	168	206			96.3							
300	163	205			96.1							
290	154	195			94.5	102	103					
280	140	175			91.4	102	103					
270	119	143			86.9	99.9	97.6					
260	92.9	99.9			80.4	94.7	86.7					
250	66.3	55.3	278	226	72.8	86.5	72.7		320	482		
240	42.7	16.5	270	221	64.3	75.8	56.0		318	479	761	
230	24.9		234	206	55.1	62.8	39.0		308	452	749	
220			139	174	44.9	48.3	24.9		287	396	680	
210			30.1	87.5	32.6	33.3	3.5		258	323	517	
200				12.4	12.4	12.4			223	259	326	
190									186	215	242	
180									153	188	214	
170									125	164	193	
160									104	139	168	
150									89.6	112	143	
140									82.9	96.5	119	
130									57.3	89.6	108	
120									48.0	86.4	104	
110									12.4	52.7	44.5	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 12 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
O,KP	A0	A0	A1	A1	A1	A2	A2	A2	A2	2	A2	F2
HMIN								200	199	198	216	224
SCAT								36.8	32.2	45.6	38.5	48.9
HMAXF								265	245	303	313	335
SHMAX								101	31	62	70	110
KM												
340												155
330												154
320											122	151
310										92.3	122	145
300										92.2	118	135
290										90.4	111	124
280										86.4	99.9	110
270								225		80.0	84.4	95.6
260								223		71.8	67.1	77.4
250								215	85.4	61.6	50.9	54.6
240								199	84.9	51.1	36.7	36.4
230								167	80.8	40.6	25.0	20.6
220								115	72.6	30.5	12.4	
210								65.5	55.0	21.3		
200								12.4	12.4	6.6		

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 13 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F2	2	1	1	A1	A1	A1	S1	1	1	1	1
HMIN	237	239	219	205	207	199	209		109	107	109	108
SCAT	40.7	44.1	29.7	23.8	32.0	42.8	40.2		37.6	38.8	35.8	24.8
HMAXF	329	326	275	252	264	266	291		232	247	250	228
SHMAX	86	87	75	64	52	44	40		182	276	421	380
KM												
330	148	155										
320	146	155										
310	140	150										
300	129	142					72.3					
290	115	129					72.3					
280	96.8	109	205				71.0					
270	77.4	80.1	203		133	85.0	67.0					
260	54.3	51.4	192	215	133	84.6	61.5					
250	33.2	30.3	169	215	127	82.0	54.2			385	639	
240	15.4	6.8	121	202	114	76.9	44.6		270	382	627	
230			59.8	167	90.4	70.0	33.0		270	368	592	744
220			12.4	91.7	51.7	60.9	21.5		263	341	523	723
210				29.4	19.3	45.5	2.3		245	298	414	646
200						12.4			220	247	308	492
190									190	205	247	335
180									156	175	217	259
170									127	146	200	231
160									105	118	184	213
150									91.2	101	162	189
140									84.0	92.4	138	154
130									67.0	87.0	122	128
120									53.1	83.9	111	121
110									27.3	73.3	41.8	86.2

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 13 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	A1	1	A1	A1	A0	S0	A0	A0	0	F0	F0
HMIN	108		109	110					205	220		199
SCAT	31.0		49.4	37.0					42.5	34.0		36.6
HMAXF	223		243	250					283	285		282
SHMAX	297		357	337					82	82		81
KM												
290									149	188		155
280									149	187		154
270									145	179		150
260									138	162		139
250			428	442					126	139		125
240			428	434					110	104		105
230	467		421	411					88.2	50.8		80.5
220	466		405	371					61.1	1.7		53.7
210	447		380	319					29.4			30.3
200	404		347	269								6.8
190	337		308	238								
180	277		269	218								
170	245		238	201								
160	224		216	180								
150	204		189	147								
140	150		152	123								
130	123		136	108								
120	116		130	101								
110	80.1		55.6	19.7								

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 14 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A0	F0	A1	A1	A1	A1	1	S1	2	2	2	4
HMIN	228		229	224	211	219	200	100	109	107	108	109
SCAT	28.5		35.5	31.6	19.9	31.6	32.4	29.0	25.6	34.2	33.2	39.7
HMAXF	304		306	288	252	280	256	227	208	222	220	227
SHMAX	84		118	114	75	87	63	79	135	201	251	282
KM												
310	188		243									
300	187		241									
290	177		230	281								
280	156		210	277		222						
270	130		182	258		216						
260	101		146	226	303	200	156					
250	66.5		89.5	172	302	170	155					
240	37.3		42.6	91.0	273	116	147					
230	12.4		12.4	32.2	195	49.6	132	149		326	368	373
220					60.1	12.4	107	147		326	368	370
210							68.6	136	271	317	359	355
200							12.4	116	265	294	332	328
190								89.8	238	256	294	294
180								64.9	196	204	256	262
170								46.3	147	159	227	238
160								33.5	113	125	205	221
150								27.8	95.3	108	183	200
140								25.0	88.3	99.3	154	164
130								23.6	64.6	94.0	127	133
120								22.9	50.5	91.2	113	126
110								20.8	26.0	55.5	97.3	41.8
100								13.0				

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 14 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A4	A4	A3	A3	A3	4	A4	A4	3	3	3	2
HMIN				109		110		200	197	241	240	199
SCAT				35.7		47.8		29.3	46.7	36.8	33.6	46.3
HMAXF				258		285		255	297	314	321	303
SHMAX				476		581		97	74	78	93	105
KM												
330											193	
320										163	193	
310										162	188	163
300									113	157	174	163
290						768			112	146	152	160
280						766			109	127	122	153
270						750			103	99.2	85.8	142
260				672		716		259	95.0	66.9	55.3	127
250				664		666		258	84.0	35.5	29.9	110
240				629		598		243	71.6		.4	88.9
230				569		511		214	58.3			65.4
220				476		412		163	43.3			44.2
210				374		309		90.5	28.2			26.2
200				299		230		12.4	12.4			3.1
190				255		183						
180				230		151						
170				212		128						
160				195		108						
150				182		89.2						
140				160		75.3						
130				141		69.8						
120				123		54.5						
110				38.1		1.7						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 15 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	F3	3	3	2	2	S2	2	2	2	2
HMIN	253	238	211	220	240	246	208		113	109	104	106
SCAT	30.2	29.9	31.9	26.5	29.6	32.5	27.0		32.0	28.3	31.3	29.0
HMAXF	331	314	287	274	305	317	266		229	237	234	221
SHMAX	73	108	159	94	103	108	86		195	321	362	326
KM												
340	163											
330	163											
320	157	236				243						
310	143	235			247	240						
300	119	224			245	227						
290	89.4	198	358		231	202						
280	61.2	167	353	271	202	166						
270	38.8	131	332	270	164	116	238					
260	22.2	89.6	294	252	116	66.0	235					
250		50.1	243	215	55.4	23.6	216					
240		16.8	171	155	1.7		181			531	580	
230			81.2	66.9			128		354	524	578	549
220			38.3				62.7		347	485	552	549
210							18.4		321	414	497	528
200									279	338	412	475
190									219	273	321	390
180									158	225	261	304
170									115	192	229	253
160									93.6	164	207	227
150									83.5	143	183	206
140									70.2	124	158	177
130									58.0	104	137	147
120									50.8	92.4	118	127
110										27.3	41.8	105

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 15 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	A2	2	2	2	3	S3	3	2	A2	2	2
HMIN		109	109	108	106	109		181	206	199	199	198
SCAT		35.0	39.8	38.4	42.8	33.3		27.9	44.1	39.4	29.0	41.1
HMAXF		256	256	262	250	259		229	285	273	250	260
SHMAX		455	484	493	482	375		81	103	75	40	36
KM												
290									187			
280									186	148		
270				678					181	148		76.1
260		663	619	678		564			172	145	108	76.1
250		659	615	661	707	553			158	136	108	75.0
240		630	594	622	698	517			136	123	104	71.5
230		574	554	559	670	457		243	107	104	94.4	65.9
220		489	495	468	622	385		236	65.9	78.1	78.0	55.6
210		383	423	366	553	317		215	26.3	46.3	52.4	38.2
200		298	354	292	449	255		168		12.4	12.4	12.4
190		252	301	250	325	206		80.7				
180		224	265	225	239	170						
170		196	242	205	201	145						
160		174	222	188	175	125						
150		160	204	172	152	107						
140		152	186	147	131	91.1						
130		146	165	130	114	78.0						
120		140	138	124	106	71.5						
110		30.3	27.3	36.5	68.2	39.4						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 16 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	3	3	F3	A3	3	S3	4	4	4	2
HMIN	275	227	211	231	259	221	203		111	108	106	109
SCAT	33.4	46.8	38.2	26.2	33.3	31.3	43.3		26.2	39.0	32.2	42.5
HMAXF	339	323	291	294	332	289	291		222	229	226	223
SHMAX	55	103	100	87	92	86	83		175	262	302	290
KM												
340	124				205							
330	122	170			205							
320	114	169			198							
310	101	166			182							
300	81.1	159	200	228	156		147					
290	59.8	144	200	226	117	202	147					
280	30.1	133	196	209	70.4	198	145					
270		109	184	181	36.3	183	139					
260		80.8	166	137	4.7	157	129					
250		53.6	136	83.9		117	113					
240		33.5	97.2	38.5		76.2	92.4					
230		15.6	56.2			37.5	66.7		349	390	469	392
220			30.0				43.5		349	385	466	392
210							23.1		332	368	442	383
200									288	337	396	363
190									226	290	333	332
180									166	241	274	294
170									125	201	234	259
160									99.3	169	207	237
150									86.1	142	181	215
140									73.1	121	156	182
130									56.7	94.9	126	137
120									47.9	81.3	107	121
110										49.1	89.0	59.8

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 16 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	2	2	2	3	S3	A3	2	2	2	2
HMIN	107	108	108	109	109	109		200	220	207	217	198
SCAT	42.0	30.8	27.7	27.0	48.7	36.8		34.6	41.3	32.3	34.0	42.9
HMAXF	249	255	253	231	267	267		255	299	273	280	292
SHMAX	395	482	440	286	417	511		76	114	95	103	96
KM												
300									214			163
290									211			163
280									202	225	243	160
270					467	815			186	224	238	153
260		707	710		464	809		187	163	215	224	141
250	456	702	708		452	773		186	130	196	194	123
240	451	664	671	494	429	707		178	94.1	164	148	98.6
230	428	589	587	494	397	603		163	52.0	115	87.9	73.6
220	400	486	455	474	360	469		139	1.7	58.6	25.5	51.1
210	367	381	347	420	322	340		92.1		20.6		32.6
200	333	310	281	332	287	253		12.4				12.4
190	300	273	252	254	255	201						
180	274	251	234	220	227	168						
170	253	233	214	194	201	145						
160	235	216	188	164	176	126						
150	220	200	157	137	143	110						
140	202	188	142	124	115	97.6						
130	131	131	134	117	101	70.9						
120	122	122	129	113	95.3	66.1						
110	85.2	77.5	40.4	26.0	35.7	26.0						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 17 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	A2	1	A1	A1	1	1	S1	S1	1	1	1
HMIN	237	237	221	219	206	216	215		110	108	108	108
SCAT	36.3	31.7	29.1	31.2	32.9	35.0	37.0		25.9	30.1	22.7	25.5
HMAXF	331	313	282	274	294	290	289		233	237	226	213
SHMAX	96	99	123	117	118	123	135		250	359	373	267
KM												
340	176											
330	176											
320	172	215										
310	160	215										
300	143	207			240	259						
290	120	189	325		239	259	279					
280	94.9	160	324	309	229	254	275					
270	69.8	126	310	307	208	238	259					
260	46.5	87.1	277	294	183	211	235					
250	28.8	46.4	216	264	143	176	200					
240	12.4	16.2	134	211	99.4	131	150		491	619		
230			51.0	119	63.0	67.8	86.1		490	610	782	
220				22.0	37.1	26.3	30.1		460	569	768	489
210					18.1				395	493	683	487
200									307	383	515	456
190									224	286	338	385
180									168	230	257	291
170									133	197	227	251
160									109	171	207	232
150									93.3	147	182	199
140									83.5	126	155	151
130									67.8	111	133	128
120									57.3	95.7	121	121
110										44.1	62.1	53.6

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 17 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	1	1	1	1	1	1	0	0	0	0
HMIN	104	104	108	107	109	109	117	200	201	201	210	228
SCAT	25.4	60.0	41.0	34.0	43.3	32.5	35.6	29.8	39.4	53.6	39.2	51.1
HMAXF	201	293	245	234	259	258	270	256	270	291	285	335
SHMAX	232	575	356	309	400	359	340	169	78	79	64	87
KM												
340												123
330												123
320												120
310												116
300		461								123		108
290		460								123	129	99.5
280		455							163	122	129	88.8
270		444					651		163	118	125	75.4
260		420			507	567	638	448	161	113	117	60.2
250		399	446		502	558	600	444	153	105	103	44.8
240		380	445	428	483	523	536	417	140	94.4	80.0	27.7
230		367	432	426	454	461	424	365	115	78.1	55.3	7.7
220		357	405	409	402	382	287	273	80.3	55.0	30.8	
210	424	345	367	373	338	303	173	139	40.4	30.0		
200	424	330	322	327	284	239	103	12.4				
190	406	312	283	282	244	194	70.2					
180	355	290	254	250	215	161	53.1					
170	285	267	232	227	193	135	42.6					
160	249	245	208	206	172	113	37.6					
150	230	226	173	183	148	92.8	35.1					
140	193	208	149	158	125	81.0	33.8					
130	151	145	140	129	106	74.6	33.0					
120	133	131	131	120	100	71.4	24.5					
110	109	67.3	38.7	40.0	39.4	25.1						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 18 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F0	F0	F0	0	F0	1	1	S1	A1	1	1	2
HMIN	251	247	240	228	210	227	248		108	109	108	109
SCAT	32.6	31.6	31.0	27.2	29.7	41.5	38.0		25.7	27.4	24.5	33.8
HMAXF	322	309	303	282	263	317	308		224	227	214	216
SHMAX	60	72	83	94	91	82	61		197	257	265	278
KM												
330	131											
320	131					142						
310	127	165	204			141	132					
300	116	161	203			136	131					
290	100	148	195	268		127	125					
280	79.8	133	176	267		113	115					
270	54.3	111	145	254	258	95.8	97.9					
260	29.3	74.7	100	222	257	75.4	74.7					
250		25.5	49.0	166	246	54.1	55.5					
240			3.1	87.7	221	35.1						
230				20.5	174	16.0			387	438		
220					73.9				384	431	482	428
210					.4				357	397	480	424
200									298	333	443	403
190									221	265	372	363
180									166	218	289	310
170									130	188	241	262
160									105	163	216	238
150									88.8	138	191	215
140									78.9	118	162	183
130									73.2	105	138	152
120									66.1	96.2	123	134
110									37.6	30.3	81.2	33.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 18 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	1	1	1	A0	A0	0	2	2	2	2
HMIN	109	108	108	107	109			200	245	249	237	208
SCAT	36.9	38.7	69.3	38.5	27.2			25.6	35.8	34.0	39.4	36.6
HMAXF	227	236	284	248	236			248	302	320	316	288
SHMAX	339	369	589	414	296			111	43	59	88	77
KM												
330										127		
320										127	170	
310									101	125	169	
300									101	116	162	
290			515						98.6	101	151	151
280			514						92.6	81.6	132	149
270			509						80.7	57.4	107	142
260			499						62.5	32.5	76.9	130
250			484	541				342	30.1	5.4	43.3	112
240		471	461	535	507			334			16.2	88.2
230	467	468	436	512	502			300				61.8
220	463	451	410	468	465			231				37.3
210	442	414	381	411	397			135				12.4
200	405	372	348	343	310			12.4				
190	349	328	314	288	242							
180	300	290	285	252	202							
170	266	261	260	228	175							
160	246	242	239	209	151							
150	235	229	220	190	126							
140	212	217	201	172	111							
130	173	175	180	156	103							
120	147	146	143	147	100							
110	41.8	39.4	55.6	93.8	57.7							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 19 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	3	3	3	2	2	S2	4	4	A4	4
HMIN	238	200	199	207	300	245	209		109	109	107	106
SCAT	36.9	16.1	33.6	36.6	33.5	34.0	34.1		28.4	28.7	24.1	67.7
HMAXF	312	231	270	281	359	331	278		230	247	235	271
SHMAX	88	60	59	69	66	82	82		225	397	461	556
KM												
360					154							
350					151							
340					141	158						
330					126	158						
320	179				104	154						
310	179				64.9	143						
300	174				12.4	127						
290	163			142		108						
280	145			142		86.3	187					536
270	120		124	139		61.3	184					536
260	85.4		121	131		38.5	174					533
250	45.9		113	117		20.1	155			740		524
240	16.5	291	100	97.5			124			728	941	509
230		290	83.6	68.2			79.9		409	673	932	487
220		256	63.6	40.7			41.8		397	561	855	460
210		148	40.8	16.2			12.4		358	400	683	427
200		12.4	12.4						303	277	479	388
190									238	222	336	344
180									183	188	259	299
170									141	156	227	264
160									113	130	211	243
150									94.0	113	188	226
140									81.9	106	154	192
130									76.0	102	132	153
120									56.8	98.6	121	134
110									12.4	33.3	75.6	81.9

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 19 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	4	A4	A4	A4	4	1	A1	A1	A1	A1	A1	1
HMIN	108				109	109		201	221	220	230	220
SCAT	65.5				46.2	40.1		36.8	35.2	26.0	33.6	31.4
HMAXF	280				271	260		286	300	285	304	299
SHMAX	630				479	352		182	143	123	154	130
KM												
310									304		342	
300									304		341	281
290	591							358	298	342	328	276
280	591				580			355	279	339	299	256
270	587				580			340	247	314	258	224
260	577				572	491		312	194	263	196	183
250	560				551	484		270	137	185	112	134
240	538				514	461		215	79.1	92.6	43.2	79.6
230	505				469	423		151	37.2	42.2	3.1	38.9
220	464				412	375		89.2		3.1		3.9
210	417				352	319		39.4				
200	370				301	262						
190	331				257	212						
180	300				221	171						
170	274				189	137						
160	252				159	111						
150	234				131	92.4						
140	218				111	79.9						
130	174				100	73.9						
120	146				95.2	66.9						
110	55.5				29.7	22.0						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 20 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	F2	A2	2	F1	1	S1	0	A0	A0	A1
HMIN	200	202	208	220	213	231	239		109	103	109	
SCAT	32.8	43.2	43.3	34.5	32.0	34.1	36.0		29.0	29.5	27.1	
HMAXF	282	271	301	293	279	309	317		242	253	244	
SHMAX	108	91	111	102	81	89	112		275	499	453	
KM												
320							226					
310			188			188	223					
300			188	215		185	213					
290	225		185	215		174	194					
280	224	187	176	207	188	155	166					
270	217	187	164	190	184	128	132					
260	199	184	145	166	170	93.6	89.7			923		
250	174	175	120	136	149	55.7	49.6		529	921	819	
240	142	164	91.1	95.3	119	29.5	12.4		528	880	814	
230	98.5	138	61.4	44.1	75.0				505	785	761	
220	60.1	88.9	37.7	3.1	34.0				451	600	651	
210	32.3	37.0	12.4						351	414	489	
200									251	294	346	
190									178	235	274	
180									138	202	239	
170									113	176	217	
160									93.8	151	193	
150									79.8	129	166	
140									70.7	113	143	
130									66.6	102	128	
120									56.0	96.8	120	
110									12.4	84.8	33.5	

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 20 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	2	2	2	1	S1	1	2	S2	F2	F1
HMIN	110		108	108	109	109	110	199	235	219	200	252
SCAT	25.2		31.5	43.0	35.9	39.5	34.5	41.0	32.8	29.4	25.6	28.2
HMAXF	209		238	248	242	238	247	285	309	284	246	319
SHMAX	269		436	436	351	253	207	101	86	116	51	76
KM												
320												181
310									191			177
300									188			160
290								179	175	297		138
280								178	154	296		109
270								173	121	282		74.8
260								162	83.2	250		37.0
250			564	505		387		146	47.0	193	156	
240		707	559	505	368	382		124	20.2	118	154	
230		696	539	490	364	362		98.6		55.8	140	
220		651	504	455	348	326		70.6		12.4	115	
210	491	559	452	400	319	260		42.4			71.2	
200	474	429	389	337	283	185		12.4			12.4	
190	418	330	329	279	239	122						
180	333	277	280	236	195	81.1						
170	272	248	244	204	158	58.1						
160	243	227	216	179	130	45.9						
150	221	205	190	156	107	40.1						
140	193	184	159	135	89.5	37.4						
130	157	161	137	116	76.9	36.1						
120	143	140	123	105	70.2	31.9						
110	12.4	40.4	54.9	33.8	27.3	12.4						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 21 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	F1	F2	F2	F2	F2	2	S2	3	3	3	A1
HMIN	227	230	208	215	199	227	233		110	110	109	109
SCAT	35.3	21.5	25.9	24.4	24.0	38.7	50.1		28.1	24.7	17.7	31.8
HMAXF	307	279	260	260	247	317	332		234	237	218	208
SHMAX	100	70	68	60	45	59	97		249	332	278	256
KM												
340							149					
330							149					
320						103	147					
310	204					102	142					
300	202					98.0	134					
290	193					90.1	123					
280	175	232				80.1	107					
270	150	222		193		67.7	86.2					
260	116	188	194	193		53.6	65.0					
250	74.9	133	187	185	142	39.4	43.7					
240	41.0	59.5	165	160	140	26.3	23.1		494	669		
230	16.2	.4	132	118	126	12.4			491	657		
220			83.4	42.9	95.5				464	596	651	
210			20.5		51.3				405	466	614	434
200					12.4				316	331	483	427
190									224	244	313	400
180									156	199	240	346
170									117	167	207	276
160									94.9	139	173	239
150									81.6	119	142	213
140									73.7	99.6	128	176
130									59.8	90.6	122	151
120									53.8	86.5	115	139
110									12.4	12.4	25.1	59.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 21 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	0	A0	0	A2	A2	A2	A0	A0	A0	0
HMIN	109	108	108	108	109				210		217	192
SCAT	43.4	53.1	27.4	44.2	48.8				43.7		23.7	27.3
HMAXF	253	274	236	242	260				300		258	227
SHMAX	451	585	403	405	382				140		91	35
KM												
310									240			
300									240			
290									236			
280		591							227			
270		590			426				211			
260	517	581			426				190		319	
250	516	561		539	421				161		309	
240	506	532	663	538	408				123		272	
230	481	490	654	528	382				82.0		190	123
220	442	444	605	504	354				44.5		46.7	121
210	398	397	514	467	323				1.7			112
200	355	354	410	406	294							84.1
190	319	319	320	336	266							
180	291	292	269	276	236							
170	271	271	240	237	207							
160	251	251	217	212	179							
150	232	230	195	187	152							
140	194	207	178	161	125							
130	158	176	145	140	110							
120	146	149	133	128	104							
110	59.8	113	73.8	85.7	33.8							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 22 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	0	1	1	1	A0	0	S0	0	A0	0	0
HMIN	217	238	224	210	205	199	208		111	110	109	109
SCAT	35.5	35.0	28.5	29.1	28.5	27.3	45.2		39.0	26.5	24.4	39.6
HMAXF	302	313	288	269	269	256	311		261	238	252	264
SHMAX	64	90	93	99	101	94	139		359	362	600	715
KM												
320		197					222					
310	123	196					222					
300	123	190					218					
290	120	175	236				210					
280	111	151	231				196					
270	98.5	112	211	256	253		177		541			1013
260	81.6	67.9	177	249	247	258	152		541		1184	1009
250	63.7	38.5	131	228	224	255	123		531		1183	979
240	44.0	12.4	74.2	189	190	237	87.3		503	660	1118	914
230	28.0		32.1	138	140	202	56.5		457	647	952	820
220	12.4			72.5	75.9	147	33.1		390	585	704	694
210				12.4	30.1	72.9	12.4		313	490	478	548
200						12.4			240	373	342	406
190									185	279	281	322
180									147	230	251	276
170									119	196	231	250
160									97.5	168	208	234
150									82.6	143	183	215
140									74.1	123	159	184
130									67.7	110	139	154
120									63.6	102	127	140
110										12.4	41.8	48.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 22 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A0	0	0	0	0	A0	S0	0	0	0	A0	0
HMIN		107	109	105	108	109	110	191	229	219	219	217
SCAT		39.7	35.7	33.1	43.1	26.3	23.7	60.9	45.3	28.0	29.6	43.8
HMAXF		288	267	238	242	234	233	307	303	267	279	321
SHMAX		917	840	463	348	266	190	118	90	58	66	105
KM												
330												163
320												163
310								144	169			161
300								144	169			154
290		1173						142	165			143
280		1161						137	158		171	130
270		1111	1341					132	147	170	167	113
260		1021	1328					123	127	167	153	94.3
250		907	1264		448			111	98.2	154	129	70.7
240		770	1147	747	448	517	463	98.1	58.0	127	87.4	49.1
230		628	962	737	440	514	461	84.3	12.4	81.0	43.6	32.9
220		497	732	695	420	480	427	70.9		12.4	12.4	15.8
210		398	521	617	386	407	356	58.2				
200		336	373	495	349	310	240	46.6				
190		300	301	380	308	225	140					
180		276	267	295	266	170	83.3					
170		261	245	251	226	135	60.1					
160		248	223	226	193	112	50.2					
150		233	202	204	164	95.2	45.0					
140		217	186	182	141	83.4	42.5					
130		189	169	159	124	76.2	40.9					
120		157	148	136	112	72.5	35.0					
110		110	39.4	51.6	62.1	25.1	12.4					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 23 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F0	0	0	0	F0	0	A0	S0	0	0	0	0
HMIN	260	232	239	239	200	198	199	110	109	109	107	105
SCAT	27.4	29.0	28.8	31.2	25.9	34.5	43.5	35.0	28.6	34.5	32.2	23.8
HMAXF	319	298	294	298	243	271	281	259	231	248	251	235
SHMAX	66	92	82	78	42	66	67	117	197	346	491	511
KM												
320	179											
310	175											
300	158	222	222	192								
290	129	217	221	189			116					
280	82.8	199	209	176		140	116					
270	40.5	172	184	152		140	115					
260	3.1	137	141	115		137	110	175			775	
250		82.9	81.0	73.4	130	127	102	172		489	775	
240		36.7	21.8	21.8	129	112	90.5	161	342	482	752	1027
230					121	88.3	76.3	145	341	454	692	1016
220					104	60.4	59.2	126	330	405	592	931
210					74.6	35.6	39.0	104	297	346	465	750
200					12.4	12.4	12.4	83.3	250	291	340	522
190								64.5	199	250	272	349
180								49.8	157	217	244	274
170								38.7	127	188	224	249
160								32.1	104	160	201	239
150								28.9	87.5	131	172	219
140								27.1	76.6	115	146	183
130								26.2	69.5	108	133	153
120								23.7	66.0	104	127	141
110								13.0	24.5	41.8	90.4	131

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 23 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A0	A0	0	0	0	0	A0	A0	0	0	0	0
HMIN		108	108	103	108	108		202	191	241	201	224
SCAT		38.0	33.0	35.8	38.7	39.7		25.6	94.3	44.3	36.9	47.1
HMAXF		234	228	232	238	242		249	324	331	278	314
SHMAX		392	356	356	323	237		97	126	90	99	93
KM												
340										156		
330									118	156		
320									118	154		156
310									117	148		156
300									116	138		152
290									114	122		146
280									111	99.4	204	136
270									107	73.0	201	120
260									104	48.2	192	96.0
250						358		297	99.5	26.8	174	67.9
240		527		489	442	357		289	93.7		144	43.0
230		525	515	489	437	350		257	86.6		104	21.7
220		510	507	476	417	330		199	78.3		65.9	
210		476	477	441	383	300		109	67.9		35.4	
200		427	423	394	335	258			53.2			
190		372	360	343	284	206						
180		320	307	297	242	155						
170		282	274	260	211	118						
160		256	249	233	187	88.7						
150		232	222	210	163	76.2						
140		219	199	186	139	70.9						
130		180	175	157	121	67.9						
120		152	149	136	108	66.2						
110		53.9	109	113	73.8	38.7						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 24 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	0	0	0	0	A0	0	S0	0	0	0	1
HMIN	230	248	234	233	200	199	187	100	110	108	108	109
SCAT	31.8	36.5	33.2	28.5	29.0	38.4	41.4	47.1	40.4	27.5	32.1	25.3
HMAXF	316	337	302	292	248	278	257	273	252	244	244	223
SHMAX	95	129	106	87	70	99	50	158	303	361	463	336
KM												
340		242										
330		240										
320	193	229										
310	191	209	243									
300	181	184	243	229								
290	161	153	236	228								
280	136	111	218	219			188		181			
270	108	72.7	188	195			185		181			
260	78.2	40.2	144	156			177	90.7	177	426		
250	50.4	12.4	85.8	103	203		162	90.0	169	426	591	734
240	27.7		34.7	37.6	199		141	86.9	158	417	587	730
230	2.4				183		114	80.4	145	395	552	698
220					153		82.1	73.9	130	360	477	630
210					87.5		50.8	66.2	114	312	379	515
200					12.4		12.4	57.0	98.4	257	294	399
190								43.4	83.7	211	245	306
180									69.1	174	217	260
170									57.3	143	192	238
160									48.4	119	169	217
150									41.4	103	146	192
140									36.0	95.3	129	166
130									32.7	71.7	117	146
120									31.5	58.2	99.6	128
110									28.2	12.4	73.8	94.7
100									12.4			

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 24 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	0	0	0	1	A1	A1	A0	A0	0	1
HMIN	108	108	108	109	108	109		191	247	242	201	239
SCAT	33.8	45.2	45.6	33.2	38.2	30.9		33.6	32.2	35.2	31.4	38.3
HMAXF	234	245	260	240	255	252		249	318	314	274	322
SHMAX	399	431	516	397	387	345		87	59	83	82	84
KM												
330												152
320									130	178		152
310									128	177		148
300									120	171		138
290									106	157		126
280									85.9	136	184	111
270			610						61.7	105	183	92.7
260			610		512	594			38.3	69.4	175	69.4
250		517	602	567	510	593		217	16.2	34.4	157	41.2
240	564	515	579	567	492	571		214			128	12.4
230	562	502	544	553	456	519		201			95.6	
220	540	476	490	513	405	430		176			57.9	
210	494	437	424	450	341	332		131			29.9	
200	427	389	357	376	289	249		60.3				
190	363	338	305	315	250	190						
180	313	296	273	272	220	155						
170	279	269	252	243	193	128						
160	255	252	236	221	168	104						
150	231	235	220	198	141	88.6						
140	208	204	199	177	123	79.9						
130	163	168	156	158	114	74.9						
120	143	144	138	133	109	72.4						
110	100	82.1	53.9	64.7	79.1	29.7						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 25 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	1	F2	F2	F2	2	2	S2	0	A0	0	2
HMIN	271	237	220	211	210	190	199	110	109	109	108	109
SCAT	32.5	31.0	28.1	24.2	32.2	41.3	34.9	31.3	39.2	34.2	27.7	25.7
HMAXF	337	292	269	270	278	291	272	245	242	255	243	229
SHMAX	94	95	86	79	74	103	83	109	248	377	437	355
KM												
340	218											
330	216											
320	202											
310	180											
300	147	246				160						
290	95.9	246				160						
280	40.1	238		225	170	157	179					
270		217	257	225	167	149	179					
260		180	250	215	157	137	174			580		
250		121	227	186	139	122	162	183	374	577	772	
240		35.3	183	144	114	105	142	182	374	551	769	
230			83.3	85.3	77.4	87.6	112	173	366	501	728	633
220				37.5	38.6	71.2	75.8	154	345	427	634	612
210					3.9	55.8	40.7	130	312	339	484	542
200						40.5	12.4	103	266	268	349	432
190						12.4		79.2	217	220	275	326
180								59.1	169	182	243	268
170								45.9	131	144	222	242
160								36.6	105	121	198	211
150								31.7	93.0	108	165	173
140								29.1	80.6	101	141	152
130								27.7	58.3	96.9	131	141
120								25.8	52.4	92.4	120	133
110								12.4	25.1	33.8	78.7	33.2

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 25 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	1	1	A1	2	A2	2	3	3	3	F1
HMIN	108	117	107	108	106	109		192	219	217	218	250
SCAT	48.5	48.0	39.6	51.5	34.4	28.0		38.8	41.6	38.5	30.0	43.9
HMAXF	247	276	256	259	256	244		256	316	308	286	347
SHMAX	417	528	439	411	448	347		109	130	139	124	118
KM												
350												196
340												194
330												189
320									224			177
310									222	258		162
300									215	255		141
290									202	244	293	115
280		583							182	224	290	80.8
270		581							155	195	270	49.8
260		567	541	461	651			234	124	157	238	29.2
250	487	541	538	457	645	621		233	88.4	112	195	.4
240	484	503	520	445	614	619		224	56.4	72.8	132	
230	471	448	485	421	555	584		208	31.1	41.8	63.3	
220	447	392	432	393	463	510		180	6.4	16.2	18.4	
210	414	347	374	359	369	410		137				
200	374	311	323	317	297	313		80.0				
190	334	284	286	275	249	236						
180	301	264	254	244	219	188						
170	274	245	233	218	199	156						
160	251	218	205	191	183	133						
150	228	169	179	160	166	111						
140	168	151	162	135	143	94.0						
130	128	143	153	122	123	85.9						
120	121	77.1	138	116	114	81.7						
110	55.6		67.8	75.2	62.7	24.5						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 26 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	F1	1	F1	F1	A2	A2	S2	2	2	2	2
HMIN		235	220	204	210	215	209		109	108	106	109
SCAT		28.5	26.5	29.6	37.5	24.2	39.6		27.1	26.1	31.9	34.6
HMAXF		312	282	270	284	276	295		237	230	233	215
SHMAX		155	146	170	134	105	154		279	321	366	287
KM												
320		348										
310		348										
300		333					281					
290		297	409		279		281					
280		255	408		278	299	272					
270		200	388	450	269	294	253					
260		133	339	439	249	265	229					
250		68.8	262	401	221	220	199					
240		26.9	135	332	180	142	156		531		583	
230			47.8	199	111	70.8	97.1		521	627	581	
220			3.1	91.5	46.9	29.4	50.6		474	604	559	430
210				31.4	3.1		12.4		404	534	507	428
200									312	409	421	409
190									226	287	330	372
180									164	223	271	326
170									128	188	238	286
160									105	156	209	256
150									90.5	130	182	230
140									81.5	114	155	194
130									73.9	102	134	160
120									59.2	96.5	123	141
110									28.5	62.7	81.4	59.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 26 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	A2	A2	A2	A2	S2	2	2	2	2	3
HMIN	107	108				109		190	198	253	229	198
SCAT	47.9	44.8				46.2		31.8	47.9	35.1	32.9	39.9
HMAXF	281	274				281		255	294	335	291	283
SHMAX	625	692				678		151	91	66	75	77
KM												
340										130		
330										129		
320										124		
310										113		
300									142	98.0	178	
290	636					923			142	78.2	178	141
280	636	819				923			139	57.6	174	141
270	627	817				911			133	38.8	160	138
260	605	798				877		354	124	22.2	140	130
250	567	759				821		352	113		107	117
240	520	699				742		335	97.7		53.6	99.7
230	464	612				628		300	78.6		12.4	78.9
220	406	517				488		246	56.7			56.5
210	356	431				368		174	34.4			34.0
200	322	362				276		88.7	12.4			12.4
190	299	314				220		12.4				
180	282	285				186						
170	269	266				161						
160	256	248				140						
150	241	231				123						
140	222	212				108						
130	191	191				96.6						
120	156	155				90.3						
110	103	82.9				27.3						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	3	3	3	3	3	S3	2	2	2	A1
HM1N	269	240	201	217	252	287	221	110	110	109	106	
SCAT	45.8	40.6	21.5	52.6	34.4	41.0	34.2	38.3	30.8	39.8	41.3	
HMAXF	353	319	256	315	325	376	301	259	239	247	256	
SHMAX	91	113	76	128	91	93	81	138	249	359	521	
KM												
380						163						
370						163						
360	162					158						
350	162					147						
340	159					133						
330	152				195	114						
320	142	214		194	194	89.8						
310	125	211		193	185	63.2	168					
300	102	202		190	168	39.1	168					
290	68.4	186		183	144	16.0	163					
280	36.3	165		173	113		152					
270	4.7	137		158	70.6		132					
260		96.0	247	136	32.8		104	215			678	
250		49.0	242	108			73.0	213		512	675	
240		3.1	212	75.9			44.9	203	442	508	653	
230			151	42.6			25.4	185	433	488	611	
220			79.2	16.2				158	400	454	550	
210			37.2					124	345	397	476	
200								93.7	271	329	398	
190								71.5	202	269	329	
180								55.3	151	221	277	
170								43.2	119	186	243	
160								34.7	97.7	156	216	
150								30.2	85.0	130	188	
140								28.2	79.4	113	164	
130								27.2	67.5	104	144	
120								23.4	59.9	100	130	
110								13.0	12.4	27.3	107	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	A2	A2	A2	A3	A3	A3	A1	A1	1	1
HM1N			110		110			200	217	227	251	199
SCAT			44.6		44.1			43.2	50.2	36.3	37.7	49.2
HMAXF			265		267			267	325	314	324	290
SHMAX			621		563			128	108	105	117	129
KM												
330									160		243	
320									159	206	242	
310									156	205	235	
300									150	198	218	206
290									141	183	194	206
280									127	161	160	204
270			804		744			257	109	127	105	197
260			801		739			255	87.8	90.1	43.9	186
250			780		717			247	65.9	58.6		171
240			738		678			232	47.7	34.5		150
230			677		613			209	32.2	15.8		121
220			585		526			173	15.4			85.3
210			466		431			109				50.6
200			368		343			12.4				12.4
190			309		281							
180			274		236							
170			250		205							
160			229		180							
150			207		157							
140			184		139							
130			160		123							
120			134		112							
110			12.4		12.4							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	2	A2	A2	F1	1	S1	0	0	0	A1
HM1N	208	235	238	240	213	231	208		110	110	109	
SCAT	48.6	34.7	32.5	35.7	35.7	36.4	34.8		30.9	33.4	46.2	
HMAXF	315	322	305	305	298	313	273		236	244	266	
SHMAX	151	128	143	158	150	148	74		245	367	590	
KM												
330		253										
320	224	253				284						
310	223	245	338	346		284						
300	218	226	337	344	306	275						
290	208	199	321	331	302	255						
280	194	163	290	303	285	226	170					
270	176	120	239	263	257	191	170				740	
260	155	78.4	165	202	216	151	165				737	
250	128	45.2	71.1	128	159	103	152			567	717	
240	95.3	20.2	17.2	12.4	98.1	42.7	131		428	565	680	
230	61.3				53.6		94.4		424	542	626	
220	35.6				26.0		47.0		399	495	535	
210	12.4						16.5		352	421	442	
200									282	342	362	
190									218	280	303	
180									166	233	264	
170									130	196	238	
160									105	167	213	
150									89.0	141	189	
140									80.4	122	164	
130									71.8	109	141	
120									65.1	100	127	
110									12.4	12.4	48.8	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	1	A1	1	1	1	S1	A1	A1	A1	A1	3
HM1N	108	107	109	109	108	110	109	200			239	204
SCAT	29.4	37.3	52.7	40.3	29.8	36.7	29.5	36.7			31.8	40.5
HMAXF	241	243	276	268	248	261	251	277			295	284
SHMAX	465	449	577	595	440	469	265	139			106	122
KM												
300											271	
290											269	234
280			580					271			255	234
270			578	779		747		268			228	227
260			566	771		747	572	256			176	213
250	714	591	544	741	747	732	572	233			103	192
240	713	590	511	686	734	688	554	202			22.0	161
230	687	573	472	603	679	616	502	165				118
220	621	534	431	504	580	505	416	119				65.3
210	519	474	392	407	454	384	289	69.9				28.0
200	423	403	358	337	342	283	164	12.4				
190	355	345	327	291	269	217	95.0					
180	309	306	299	262	228	175	67.1					
170	276	277	273	240	199	148	52.2					
160	248	254	246	219	171	128	42.6					
150	219	234	218	196	147	113	38.0					
140	185	213	187	167	125	98.7	35.6					
130	148	177	154	138	113	85.9	34.5					
120	135	153	139	126	106	76.2	31.5					
110	106	98.5	24.5	33.3	38.7	12.4	23.1					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 29 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F3	F3	F1	1	F1	F2	2	S2	A3	3	3	A1
HMIN	219		233	230	258	221	201	115		108	109	
SCAT	37.2		32.5	28.0	32.5	26.8	45.7	35.6		36.8	49.1	
HMAXF	313		306	282	325	280	300	271		245	289	
SHMAX	111		125	99	98	116	130	158		407	786	
KM												
330					226							
320	191				224							
310	191		283		213							
300	186		280		192		206					
290	172		266	280	160	319	203				923	
280	157		238	280	113	319	196	259			916	
270	139		198	268	61.8	307	184	259			890	
260	119		140	239	20.5	273	167	253			843	
250	91.6		73.5	184		221	146	235		575	781	
240	56.8		31.1	97.6		141	122	209		572	688	
230	31.1			12.4		51.4	94.1	176		551	575	
220	6.4						61.0	139		506	468	
210							31.0	102		454	380	
200								72.9		388	321	
190								52.6		325	282	
180								38.7		270	256	
170								30.7		226	236	
160								26.5		192	215	
150								24.3		164	191	
140								23.0		142	167	
130								21.6		125	146	
120								17.9		109	124	
110										66.6	41.8	

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 29 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	A0	A0	0	A2	A2	2	3	A3	S3	2
HMIN		109	109	109	110	107		202	200	230	199	208
SCAT		31.2	35.8	39.3	39.3	36.6		38.5	39.2	28.9	37.7	40.6
HMAXF		260	257	253	263	251		282	269	300	291	306
SHMAX		690	591	479	457	363		279	198	122	156	155
KM												
310										293		266
300										293	284	265
290									567		284	284	256
280									566		257	278	240
270					580				552	411	214	263	214
260		1110	804	648	579	539			519	405	157	237	181
250		1083	797	647	564	539			465	386	99.6	205	144
240		997	761	631	529	526			377	354	43.2	164	107
230		859	692	595	477	493			269	302	3.1	117	71.9
220		676	602	536	412	440			139	223		79.6	39.9
210		503	508	455	354	376			50.4	127		49.5	12.4
200		387	429	376	305	302				12.4		12.4	
190		325	367	317	266	238							
180		289	319	275	236	191							
170		263	283	248	213	157							
160		242	253	226	190	132							
150		218	221	196	165	112							
140		188	186	154	141	97.9							
130		161	165	135	118	91.8							
120		143	145	127	109	78.2							
110		29.7	41.8	30.3	12.4	56.1							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 30 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	2	A2	2	2	2	S2	2	2	2	2
HMIN	222	219	221	209	227	233	219		108	107	108	107
SCAT	34.2	33.2	32.2	39.3	37.9	39.7	41.3		28.5	34.1	29.7	47.5
HMAXF	299	287	296	285	303	315	312		247	249	240	256
SHMAX	128	112	126	137	144	181	184		326	534	504	610
KM												
320						338	325					
310					295	337	324					
300	270		279		294	326	318					
290	265	258	276	279	286	303	301					
280	249	255	262	278	268	273	275					
270	222	241	233	268	237	230	240					
260	185	216	194	252	194	175	195					775
250	137	175	142	220	133	114	145		564	894		772
240	78.1	117	82.2	174	65.5	47.8	87.0		555	878	898	754
230	36.4	54.2	38.3	111	21.6		41.8		513	823	874	718
220		12.4		49.7			12.4		440	727	804	666
210				12.4					359	574	651	589
200									285	428	484	490
190									223	319	353	397
180									172	252	282	321
170									138	213	247	273
160									112	180	221	247
150									92.9	153	194	226
140									80.4	131	168	198
130									75.4	115	145	167
120									60.6	106	130	145
110									51.8	90.4	54.4	112

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO — 60 W — 30 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	1	1	A1	A1	A1	1	S1	1	1	S1
HMIN	103	108	107	108	108	108	110	200	222	249	224	210
SCAT	58.0	36.6	52.1	36.1	33.3	31.4	32.3	27.3	38.7	48.6	35.3	42.7
HMAXF	259	260	273	255	258	249	243	249	298	339	308	292
SHMAX	544	578	672	530	472	440	231	111	73	100	106	119
KM												
340										163		
330										161		
320										156		
310										149	215	
300									142	136	213	211
290									140	117	202	210
280			740						134	92.2	182	206
270			740						123	65.1	152	196
260	575	747	728	740	675				107	39.3	114	181
250	571	734	703	736	666	819	450	326	86.7	12.4	72.5	163
240	559	694	669	707	627	803	449	317	61.2		43.6	139
230	537	625	611	652	558	745	431	287	32.1		21.7	103
220	509	538	543	560	466	636	393	223				47.8
210	473	450	471	457	383	452	331	124				3.1
200	431	376	402	369	316	317	242	12.4				
190	382	325	346	311	270	231	155					
180	334	294	302	273	238	184	94.5					
170	292	272	268	247	214	154	64.5					
160	263	256	241	226	191	131	52.9					
150	240	242	215	205	167	113	47.0					
140	207	224	193	184	146	99.6	44.1					
130	167	180	181	163	127	92.8	41.2					
120	143	147	143	132	113	84.2	34.0					
110	134	116	117	49.1	66.6	39.4	13.0					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 31 JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	F0	F0	0	F0	0	S0	0	0	0	0
HMIN	230	259	239	228	201	209	216		108	108	105	108
SCAT	35.2	30.0	28.2	30.0	36.7	41.1	37.6		30.0	35.8	34.1	32.2
HMAXF	321	319	307	292	281	278	291		228	241	243	241
SHMAX	115	91	106	94	109	84	65		237	357	434	466
KM												
330	215											
320	215	236										
310	210	231	258									
300	195	211	254	234			129					
290	174	179	234	234	224		129					
280	150	126	202	225	224	170	126					
270	119	54.4	160	203	219	168	118					
260	80.7	12.4	107	171	205	161	107					
250	51.4		49.7	119	184	149	92.0			531	645	704
240	28.2		12.4	49.3	151	134	70.5			531	643	703
230	1.9			16.8	109	109	44.0		430	520	620	682
220					61.6	55.9	18.8		422	486	571	627
210					31.0	12.4			391	435	484	534
200									335	365	393	433
190									265	294	323	350
180									198	241	273	296
170									147	205	238	263
160									116	176	209	239
150									96.6	152	182	215
140									88.1	132	156	190
130									77.3	121	137	166
120									62.1	103	128	148
110									37.6	60.4	99.4	82.9

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 31 JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	0	0	0	0	A0	S0	0	0	0	F0	F0
HMIN	108	107	108	109	109	109	110	200	206	229	240	211
SCAT	37.4	58.8	36.4	44.4	40.2	35.9	24.3	27.5	48.6	38.5	27.8	26.9
HMAXF	237	264	235	261	255	250	244	247	311	316	306	274
SHMAX	426	563	406	546	436	382	255	110	132	109	90	85
KM												
320									195	206		
310									195	205	229	
300									192	197	226	
290									185	183	209	
280									174	161	181	226
270		594		701					159	133	139	224
260		593		700	583				141	97.9	84.2	210
250		586		690	581	607	602	325	120	59.4	40.6	180
240	594	570	567	662	563	596	597	320	94.9	33.4	3.9	135
230	588	545	564	619	527	561	545	295	66.2	4.7		77.6
220	561	513	543	542	474	503	456	245	41.2			37.9
210	515	468	502	451	407	419	322	155	18.4			
200	442	409	437	367	341	322	196	31.1				
190	368	355	370	306	288	244	115					
180	312	312	312	266	246	193	80.7					
170	278	279	271	238	214	160	63.4					
160	254	252	245	216	186	134	53.6					
150	229	229	225	193	161	113	45.8					
140	198	205	204	169	139	96.8	39.9					
130	157	171	176	153	121	85.8	36.7					
120	140	142	152	132	112	80.3	33.7					
110	81.5	121	81.2	57.7	24.1	37.2	19.7					

AVERAGE ELECTRON DENSITY — KP BELOW 4.5

RAMEY AFB, PUERTO RICO — 60 W — JAN 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
COUNT	28	27	31	29	30	29	29	9	28	24	26	14
KP	1.2	1.2	1.3	1.2	1.2	1.3	1.3	1.2	1.2	1.3	1.3	1.4
HMIN	230	236	228	220	220	221	213	108	110	108	108	108
RATIO	6.6	7.3	7.7	8.3	7.7	6.8	6.7	5.4	5.9	5.6	5.8	5.6
SCAT	37.7	35.2	32.8	31.0	33.4	36.6	37.8	36.7	33.1	32.3	30.5	32.9
NMAX	180	215	248	247	203	191	177	196	418	570	688	605
HMAXF	312	310	297	281	286	298	292	255	237	241	239	231
SHMAX	92	100	106	98	88	93	90	127	244	347	411	379
SHINF	599	706	805	795	662	633	589	681	1423	1954	2353	2087
KM												
950	12.2	14.4	15.6	14.4	12.2	12.2	11.0	10.1	19.7	27.3	33.0	27.9
900	15.6	18.5	20.0	18.5	15.7	15.6	14.1	13.0	25.3	35.0	42.3	35.8
850	20.0	23.8	25.6	23.8	20.2	20.0	18.1	16.7	32.4	44.9	54.3	45.9
800	25.7	30.5	32.9	30.5	25.9	25.7	23.2	21.4	41.6	57.6	69.7	58.9
750	32.9	39.0	42.1	39.0	33.1	32.9	29.7	27.4	53.4	73.9	89.4	75.6
700	42.0	49.9	53.9	50.0	42.4	42.1	38.0	35.1	68.4	94.7	115	96.9
650	53.6	63.7	68.7	63.9	54.1	53.7	48.5	44.9	87.5	121	147	124
600	68.1	80.8	87.4	81.3	68.9	68.2	61.7	57.3	112	155	187	158
550	85.8	102	110	103	87.1	86.2	78.0	72.7	142	197	238	202
500	107	127	138	129	109	108	97.6	91.8	180	249	301	255
450	130	155	169	160	134	132	120	115	226	312	377	320
440	135	161	176	166	140	137	125	119	236	326	394	334
430	140	167	183	173	145	142	130	125	246	340	411	349
420	145	172	189	180	151	147	134	130	257	355	428	364
410	150	178	196	186	156	152	139	135	267	370	446	380
400	154	183	202	193	161	157	144	140	279	385	464	396
390	159	188	208	199	167	162	149	146	290	400	483	412
380	163	193	215	206	172	167	153	151	301	416	501	428
370	166	198	220	212	177	171	157	156	312	431	520	444
360	170	202	226	218	181	175	161	161	324	447	539	461
350	173	205	230	224	186	178	165	167	335	462	557	477
340	175	208	234	229	189	181	168	171	346	477	575	493
330	177	210	237	233	192	183	171	176	357	491	592	509
320	176	210	239	237	194	184	173	180	367	505	609	524
310	173	207	239	240	194	184	174	184	377	519	625	538
300	166	199	236	242	191	181	174	188	386	531	639	552
290	154	184	228	241	187	175	171	191	395	542	652	564
280	136	162	214	235	180	166	164	193	402	551	663	575
270	116	132	192	223	169	152	152	195	408	559	671	585
260	94.6	99.4	162	201	153	133	135	195	413	564	677	592
250	71.0	67.2	123	169	131	108	113	191	415	568	678	596
240	48.3	39.0	83.3	123	105	78.2	85.9	183	414	564	669	594
230	27.4	21.7	47.7	77.0	76.5	49.1	58.4	169	404	541	642	585
220	11.5	14.1	20.3	38.5	43.9	27.6	33.4	149	377	490	585	557
210	3.8	6.9	5.8	12.8	18.1	13.6	14.2	124	330	412	493	501
200		.5	.4	.4	2.9	4.0	3.9	97.9	270	328	386	422
190						.4	1.5	74.6	211	261	299	344
180								56.1	163	216	249	286
170								43.2	128	182	220	251
160								34.7	104	154	195	228
150								30.0	88.5	131	169	201
140								27.3	78.9	115	146	169
130								25.9	65.9	104	129	143
120								23.8	55.5	94.7	117	131
110								14.0	16.7	46.5	60.5	63.6
100								2.8				

AVERAGE ELECTRON DENSITY — KP BELOW 4.5

RAMEY AFB, PUERTO RICO — 60 W — JAN 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
COUNT	18	18	23	24	25	20	8	28	29	29	29	29
KP	1.3	1.0	.8	.9	1.0	1.3	.6	1.3	1.3	1.3	1.3	1.1
HMIN	108	109	109	108	109	109	111	199	215	225	220	214
RATIO	5.0	4.6	4.7	5.0	5.1	5.5	7.1	7.6	6.3	7.0	7.5	6.8
SCAT	37.9	42.0	41.7	37.4	37.8	36.5	29.7	35.2	42.1	36.6	32.9	38.2
NMAX	527	653	637	583	567	592	529	267	189	200	219	180
HMAXF	238	256	254	248	251	255	249	265	297	302	290	292
SHMAX	394	514	485	418	397	378	247	117	103	95	96	91
SHINF	1879	2355	2283	2062	1996	2048	1740	870	637	658	713	599
KM												
950	25.1	34.0	32.6	28.9	28.5	30.6	26.4	14.3	11.9	12.8	13.4	11.2
900	32.2	43.6	41.9	37.1	36.5	39.2	33.9	18.4	15.3	16.5	17.2	14.4
850	41.3	56.0	53.7	47.6	46.9	50.3	43.5	23.6	19.7	21.1	22.1	18.4
800	53.0	71.9	68.9	61.1	60.2	64.6	55.8	30.3	25.2	27.1	28.3	23.6
750	68.0	92.1	88.4	78.4	77.1	82.8	71.6	38.8	32.3	34.7	36.3	30.3
700	87.1	118	113	100	98.8	106	91.7	49.7	41.4	44.4	46.4	38.7
650	111	151	145	128	126	136	117	63.6	52.8	56.7	59.2	49.4
600	142	192	185	164	161	173	150	81.0	67.1	72.1	75.4	62.9
550	181	244	235	208	205	220	190	103	84.8	91.0	95.3	79.4
500	229	308	296	263	259	277	240	130	106	114	119	99.3
450	287	384	370	329	324	346	301	161	130	139	147	122
440	299	401	386	344	338	361	314	168	135	145	153	127
430	312	417	402	358	352	376	327	175	141	150	159	132
420	326	435	419	374	367	392	341	182	146	156	165	137
410	339	452	436	389	382	408	355	189	151	161	171	141
400	353	469	453	405	397	423	369	197	156	166	176	146
390	367	487	470	420	413	440	383	204	161	171	182	151
380	381	505	487	436	428	456	398	211	165	176	188	155
370	395	522	505	452	443	472	412	218	170	180	193	159
360	410	539	522	468	459	487	426	225	174	185	198	163
350	423	556	538	483	474	503	440	232	178	188	202	167
340	437	572	554	498	488	517	454	238	181	192	207	170
330	450	587	569	513	502	531	467	244	184	194	210	172
320	463	601	584	526	515	544	479	250	186	196	213	174
310	475	614	597	539	527	556	491	254	187	196	215	174
300	486	625	608	551	538	567	501	259	186	193	214	173
290	496	634	618	561	548	576	510	262	182	185	210	169
280	505	640	626	569	555	582	517	264	173	173	200	162
270	511	642	631	575	561	586	523	263	160	153	183	150
260	515	636	632	579	564	585	525	258	141	126	158	134
250	516	623	624	577	561	575	521	248	118	94.7	126	113
240	512	596	604	565	547	551	503	227	91.4	61.8	89.6	91.1
230	500	554	566	537	515	504	456	195	66.0	34.0	54.7	68.3
220	477	499	506	487	463	435	380	147	41.6	15.1	25.6	44.2
210	440	435	434	419	395	351	277	86.4	21.6	6.0	9.4	22.6
200	393	374	363	348	323	271	173	23.2	4.8	1.1	1.3	5.8
190	343	324	309	291	264	210	104	3.3				
180	297	287	272	251	223	168	68.2					
170	263	260	245	224	193	138	50.9					
160	241	238	223	200	169	116	42.5					
150	218	217	199	177	145	98.2	37.9					
140	181	193	174	155	124	85.5	35.3					
130	148	160	152	135	110	77.1	33.7					
120	131	133	132	120	101	70.2	29.4					
110	63.4	60.7	45.9	42.4	35.8	24.7	11.7					

TABLES OF IONOSPHERIC DATA

TABLE 1

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 25	U 285	U 25	U 27	U 27	U	U																	U
	CNT	11	14	11	10	11	26 11	31 18	40 21	48 24	52 26	56 29	58 28	61 27	61 28	60 27	61 29	59 29	515 28	47 26	40 23	31 17	265 18	245 14	23 11
	UQ	28	33	30	29	33	33	34	42	52	57	62	66	70	72	67	70	62	57	52	45	38	31	27	28
	LQ	20	20	22	21	21	20	26	36	42	47	49	52	53	54	54	52	50	47	37	31	25	21	21	22
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 285	U 290	U 275	U 280	U 2725	2825	U 300	320	330	325	3225	330	325	330	330	335	335	330	325	320	325	3225	315	U 320
	CNT	9	11	7	8	10	10	17	21	23	25	28	27	26	27	27	29	29	27	26	23	16	14	11	8
	UQ	300	300	285	295	280	300	310	335	335	340	340	335	335	335	340	350	350	340	335	340	340	330	330	330
	LQ	280	270	270	260	270	280	295	305	310	315	310	320	315	315	320	320	335	320	315	310	310	315	300	300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	34	32	30	36	32	25																		30
	CNT	26	31	27	27	27	23	25	23	24	26	29	28	26	29	27	29	30	30	30	31	30	27	27	27

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1961

TABLE 2

ANCHORAGE, ALASKA (61.2N, 149.9W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 23	U 235	U 24	U 27	U 26	U 28	E 365	41	445	47	49	50	53	54	53	52	52	50	485	45	405	345	295	U 26
	CNT	17	14	18	19	17	24	24	29	26	28	28	28	27	27	28	29	29	29	28	28	24	22	22	18
	UQ	30	29	31	31	28	30	38	43	47	49	51	53	56	58	58	58	56	54	54	49	45	39	35	33
	LQ	20	20	21	24	20	23	34	37	42	44	44	48	46	48	48	48	48	48	45	41	38	29	25	24
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 2925	U 290	U 280	U 2775	U 275	U 2925	295	290	280	285	285	295	305	305	305	315	325	330	320	315	310	300	310	U 305
	CNT	16	13	14	14	17	22	21	29	25	27	27	26	26	27	27	29	29	29	28	28	24	22	21	18
	UQ	305	300	285	295	290	310	320	320	300	305	300	305	315	315	325	325	335	335	330	320	320	310	315	315
	LQ	280	270	270	270	260	275	280	270	270	265	265	280	295	290	295	300	310	320	310	305	310	295	290	290
foF1	MED							2	350 9	380 17	390 20	410 20	415 18	420 15	420 11	400 8	3								
	CNT																								
foE	MED							U 185	230	255	280	290	295	300	295	2875	270	240	220	U 185					
	CNT						3	11	18	20	20	19	19	21	25	20	14	13	11	7					
h'E	MED							119	111	110	107	109	106	107	109	111	109	114	116	U 135					
	CNT						3	14	21	24	23	22	22	24	26	25	23	20	16	9	2				
foEs	MED																								
	CNT	24	17 23	25 27	23 25	23	25	24	29	26	28	28	28	27	27	27	29	29	29	26	28	15 28	27	26	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SEPTEMBER, 1961

TABLE 3

HUANCAYO, PERU (12.0S, 75.3W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	76	67	57	50	46	42	46	76	90	93	895	84	80	82	87	88	89	89	88	775	76	785	80	76
	CNT	25	29	29	29	25	22	27	29	29	29	28	27	27	27	28	28	28	28	29	26	19	18	20	23
	UQ	86	76	67	62	54	49	55	82	92	102	100	89	87	90	92	92	94	94	95	89	84	84	86	87
	LQ	65	58	51	46	42	39	40	68	84	8E	82	78	77	80	82	84	84	84	81	72	70	75	74	70
h'F2	MED									U 280	U 310	325	340	355	3475	U 340									
	CNT									5	7	13	10	11	10	7	2								
	UQ									290	340	340	360	360	365	340									
	LQ									270	285	300	325	340	315	310									
h'F	MED	215	220	230	240	255	260	265	230	215	210	200	200	195	195	190	190	200	240	270	E 340	U 3325	270	230	215
	CNT	29	29	29	29	27	25	28	28	29	29	28	26	27	27	28	28	28	28	29	28	18	18	23	29
	UQ	220	225	235	250	275	290	270	235	220	210	200	200	200	195	195	200	205	245	270	360	365	270	240	220
	LQ	210	210	220	230	240	235	260	230	215	205	200	195	190	190	190	190	195	235	265	310	295	240	220	210
(M3000)F2	MED	325	325	320	320	315	315	310	315	290	260	255	245	245	245	250	250	250	250	260	245	260	280	300	320
	CNT	22	24	27	25	24	20	26	27	29	29	28	27	27	27	28	28	28	28	29	25	15	17	16	21
	UQ	330	330	335	330	330	330	315	325	300	270	270	255	255	250	260	260	260	260	270	250	270	290	310	330
	LQ	320	320	315	310	305	300	300	305	275	255	250	245	245	240	240	240	245	245	250	240	255	270	295	315
foF1	MED											470	480	480	480	460									
	CNT										3	7	15	9	15	8	2								
foE	MED							150	250	U 300	U 335	U 360	U 370	U 380	U 370	U 360	U 330	U 290	U 245	145					
	CNT							16	29	29	29	28	27	27	27	28	27	27	26	7					
h'E	MED							E 170	115	110	109	106	105	107	105	105	105	109	111	E 147					
	CNT							16	27	26	20	14	7	6	7	11	22	26	28	8					
foEs	MED							36	48	75	78	79	80	79	80	80	79	76	585	43					
	CNT	28	28	28	28	29	28	27	27	29	29	28	27	27	27	28	28	28	28	29	28	27	29	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

SEPTEMBER, 1961

TABLE 4

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 34	U 37	U 40	U 295	U 40	U 38	U 40	U 37	U 39	U 425	505	55	60	66	74	76	675	53	U 415	U 355	U 40	U 345	U 435	U 37
	CNT	5	9	9	8	11	8	4	9	6	14	18	19	19	21	24	24	24	21	12	14	13	6	6	7
	UQ	48	39	43	37	42	42	44	52	51	49	60	65	74	81	84	82	78	64	44	40	44	46	46	47
	LQ	26	29	30	28	30	32	35	32	32	36	38	43	45	54	58	60	49	40	31	29	30	27	36	35
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED		U 290	U 275	U 280	U 260	U 260		U 2575	U 2725	U 280	295	300	300	300	300	300	300	300	U 310	U 295	U 290	U 300	U 305	U 285
	CNT	4	7	9	7	11	5	3	8	6	13	18	19	19	21	24	24	23	20	12	12	13	6	6	5
	UQ	300	310	300	285	285	265	285	270	275	295	305	305	305	310	305	305	315	310	320	300	305	325	310	300
	LQ	285	260	250	260	250	260	265	230	260	275	275	290	290	290	285	290	290	290	300	280	280	295	275	270
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED		585	45	44	375	31	26	32	35	35	35	31						14	23	30	37	43	56	66
	CNT	26	25	26	24	25	23	24	24	19	20	22	22	21	21	24	24	26	25	26	27	27	27	26	26

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 5

GODHAVN, GREENLAND (69.3N, 53.5W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 375	U 355	U 34	U 345	U 37	U 325	U 345	U 30	U 445	U 57	U 615	U 69	U 66	U 575	U 52	U 549	U 58	U 495	U 47	U 525	U 52	U 48	U 50	U 40
	CNT	8	10	7	6	3	4	2	3	2	2	6	6	9	12	9	14	9	8	11	14	9	11	8	4
	UQ	41	38	40	35	42	36		35			65	75	69	68	63	63	68	60	63	60	66	60	58	44
	LQ	32	33	29	30	34	30		30			45	40	50	46	50	45	46	38	41	46	43	46	36	36
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO		U 290											U 3075	U 3125	U 320	U 310				U 290		U 3025		
	CNT	4	7	3	3	1	2		3	1	1	4	3	8	6	5	8	3	4	4	10	4	6	4	
	UQ	305	305	290	300				295			325	310	310	315	330	315	315	330	300	300	300	305	300	
	LQ	280	290	285	260				250			285	300	300	300	310	305	300	310	295	285	285	295	285	
foF1	MEO																								
	CNT																								
foE	MEO																								
	CNT																								
h'E	MEO																								
	CNT																								
foEs	MEO															42						405	30		
	CNT	21	19	14	18	12	11	10	15	15	16	17	18	20	19	19	20	21	21	20	25	24	23	20	19

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

NOVEMBER, 1960

TABLE 6

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 46	U 425	U 39	U 40	U 365	U 39	U 365	U 38	U 495	U 585	69	80	82	82	81	84	U 72	U 64	U 50	U 47	U 47	U 46	U 36	405
	CNT	5	4	3	1	4	6	6	7	20	22	23	24	24	23	19	17	15	11	13	9	7	7	7	8
	UQ	50	48	40		40	47	44	41	54	69	78	90	98	101	97	98	92	78	58	60	60	48	57	50
	LQ	38	38	38		32	30	28	30	38	51	60	72	76	75	71	70	64	49	40	38	36	34	30	33
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO						U 290		U 290	3075	3125	310	305	305	310	3125	315	U 3125	U 295	295	285	U 285	275	290	
	CNT	3	4	3	1	3	5	4	6	16	22	23	23	24	23	18	15	14	9	11	8	5	5	5	4
	UQ	285	280	280		285	290	300	295	315	320	320	310	315	320	320	325	315	310	310	290	290	285	300	300
	LQ	275	270	270		270	285	285	280	300	295	300	300	300	300	305	310	305	280	275	270	260	265	280	275
foF1	MEO																								
	CNT																								
foE	MED																								
	CNT									1	1	1		1	1	1	2	2							
h'E	MEO																								
	CNT									1	1	1		3	1	1	2	3							
foEs	MEO	30	345	33	46	465	40	395	30										34	33	33	54	38	40	43
	CNT	21	22	18	19	20	23	12	17	21	22	23	23	24	23	21	21	23	22	23	24	25	21	23	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 7

GRAND BAHAMA I. (26.6N, 78.2W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	46	45	44	42	40	39	425	715	0 90	U 104	115	U 111	1135	U 114	U 114	U 1125	0 100	0 90	Q 785	60	56	525	50	53
	CNT	28	27	26	25	24	25	28	30	28	25	25	25	26	27	26	28	26	27	28	28	27	28	26	24
	UQ	54	57	50	48	44	44	46	75	98	114	120	122	120	123	121	120	112	97	85	70	59	57	57	56
	LQ	40	40	39	38	37	34	38	68	84	93	108	106	110	110	106	92	90	81	70	58	48	45	45	45
h'F2	MEO																								
	CNT														3		1								
	UQ																								
	LQ																								
h'F	MEO	2475	260	255	U 250	269	E 280	U 265	230	221	2225	215	220	210	2175	220	225	223	217	208	220	240	2575	2505	250
	CNT	26	28	27	27	26	26	29	29	27	26	25	24	25	26	26	27	26	27	27	27	26	28	26	27
	UQ	265	280	265	280	300	300	295	240	230	230	220	230	2275	229	230	230	230	230	220	235	278	280	280	285
	LQ	230	235	235	235	238	260	247	220	215	215	210	202	200	200	215	218	215	208	200	210	230	240	240	235
(M3000)F2	MEO	305	310	300	290	280	280	290	330	U 335	U 3225	3275	320	315	310	3125	310	U 3125	U 315	330	3025	300	2925	300	3025
	CNT	24	25	22	23	20	22	23	25	12	12	18	14	17	17	16	14	12	6	11	18	18	20	23	22
	UQ	320	315	315	310	290	290	300	335	340	330	335	330	320	320	320	315	325	330	335	320	315	310	315	315
	LQ	290	300	285	275	270	270	280	315	330	320	310	315	305	300	300	300	300	300	315	290	295	290	285	290
foF1	MEO																								
	CNT														1		1								
foE	MEO								210	265	300	325	345	350	340	330	3125	U 260	200						
	CNT								22	16	12	12	10	9	9	10	18	9	6						
h'E	MEO								E 150	110	E 110	105	101	U 105	110	104	110	112	110						
	CNT								21	19	17	18	13	15	17	18	24	20	5						
foEs	MEO	27	27	27	28	27	26	28	29	26	24	23	20	27	24	33	325	30	21	21			185		
	CNT													23		24	28	26	27	26	27	27	28	26	27

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 8

MAUI, HAWAII (20.8N, 156.5W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	59	46	39	325	275	26	29	67	100	1215	1305	138	152	1555	158	1585	150	137	123	U 94	Q 85	80	83	U 71
	CNT	29	29	28	28	28	26	29	30	30	30	30	30	30	30	30	30	30	30	29	29	30	29	29	29
	UQ	68	58	54	40	34	32	35	72	104	126	142	150	160	171	170	170	164	153	134	114	105	100	92	82
	LQ	44	39	34	29	22	22	24	60	92	114	127	134	136	143	147	145	136	129	110	85	64	70	70	52
h'F2	MEO												U												
	CNT											270	265	290	2775	2775	260								
	UQ										3	4	11	11	16	12	13	4							
	LQ									245	270	275	280	295	290	290	270	245							
										240	250	260	260	280	265	270	260	235							
h'F	MEO	2325	230	230	240	E 275	340	325	260	240	E 235	220	E 2175	E 220	225	230	230	2375	2225	210	205	U 235	235	230	230
	CNT	30	29	28	28	27	24	29	30	29	29	29	26	27	25	25	24	30	30	29	29	29	30	30	30
	UQ	240	245	245	250	340	355	350	265	245	240	230	225	230	235	240	240	240	235	215	220	260	260	235	245
	LQ	220	220	215	230	235	285	305	250	240	230	215	210	210	215	215	230	230	220	200	195	220	220	225	220
(M3000)F2	MEO	320	330	335	U 3075	2675	255	265	320	320	315	315	305	300	300	300	300	305	320	325	U 3175	U 290	300	310	U 320
	CNT	29	29	27	26	24	24	29	29	30	30	30	29	30	30	29	30	30	30	29	26	22	29	29	29
	UQ	320	345	355	335	290	265	275	330	330	320	325	315	305	305	305	310	315	330	340	330	300	320	330	330
	LQ	300	300	300	280	250	250	250	310	300	310	310	300	300	290	290	295	300	310	315	305	265	290	300	310
foF1	MEO																								
	CNT																								
foE	MEO								210	280	315	350	365	375	370	360	335	Q 2925	235						
	CNT	1		1	1	1			24	26	28	22	19	14	14	15	10	12	9						
h'E	MEO								128	115	111	109	E 109	107	107	107	109	111							
	CNT	1	1	1	1	1			16	29	29	30	29	27	26	24	25	19	1						
foEs	MEO									28	35	38	40	425	43	42	445	445	405	415	40	305	235	18	19
	CNT	30	29	29	28	30	28	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 9

BAGUIO, P. I. (16.4N, 120.6E)

TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	Q								D	Q	U	D	D	U	D	D	D	D	Q	Q	Q	D	D	D		
	CNT	100	88	73	59	49	38	56	93	116	1935	1355	128	1255	126	130	130	130	125	120	114	1145	110	116	1035
	UQ	30	28	29	28	27	27	30	29	29	30	30	29	28	30	30	30	29	29	30	28	26	25	29	30
	LQ	112	104	90	64	56	49	60	98	123	136	140	137	130	130	137	138	135	134	130	120	120	121	122	118
		84	70	60	44	38	34	47	86	114	130	130	124	119	120	120	120	120	110	110	108	110	100	112	93
h'F2	MED																								
	CNT										2	3	1	2				1							
	UQ											305													
	LQ											280													
h'F	MED	2425	240	235	235	265	275	295	265		U	U	E	E	E	E	U								
	CNT	30	28	30	29	28	30	30	29	29	30	30	29	27	30	30	30	29	29	30	29	28	30	30	30
	UQ	250	250	250	250	280	310	310	270	260	255	250	250	250	275	275	265	270	280	300	320	290	270	250	250
	LQ	235	225	230	230	240	255	285	260	250	240	235	230	230	235	240	250	260	260	270	255	250	250	240	235
(M3000)F2	MED	315	320	325	310	295	2925	290	305	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	22	26	29	28	25	26	29	29	300	295	2725	2525	250	255	270	280	2925	280	280	275	2925	315	310	310
	UQ	330	330	340	330	310	310	300	315	25	19	16	14	15	15	13	13	10	5	5	6	8	12	18	24
	LQ	295	315	315	295	270	270	280	290	310	310	290	285	270	265	285	285	300	290	290	285	310	320	320	330
										290	280	260	245	240	235	250	265	285	265	260	265	275	300	290	300
foF1	MED																								
	CNT																								
foE	MED								U	U	U	U	U	U	D			U							
	CNT								265	310	340	3475	375	360	350		3275	2725							
									10	22	16	12	10	7	5	2	6	8	1						
h'E	MED									U						E	E	U							
	CNT								130	129	125	123	121	121	123	125	129	125							
									18	27	28	26	20	16	17	17	16	10	1						
foEs	MED													D											
	CNT								26	33	38	42	41	42	43	435	375	32	33	255	20	225			18
		30	30	30	29	28	30	30	29	29	30	29	29	28	30	30	30	29	29	30	29	28	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

NOVEMBER, 1960

TABLE 10

LA PAZ, BOLIVIA (16.5S, 68.1W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED			U	U	U				D		D		U	D	D	U	U			D	D	U	U	U
	CNT			855	775	67	58	67	935	110	118	120	115	114	116	118	1265	130	124	126	110	90	89	895	865
	UQ			2	4	6	13	17	22	24	24	25	25	25	25	25	26	25	25	25	26	15	7	4	2
	LQ				82	77	68	74	98	116	126	130	125	124	124	130	130	136	135	132	120	110	90	98	
					74	65	49	62	90	108	113	113	103	106	108	110	110	110	106	110	92	87	73	83	
h'F2	MED											4	2				1								
	CNT											315													
	UD											290													
	LQ																								
h'F	MED	315	285	2625	250	235	230	255	240	230	220	215	210	205	200	U	U	220	240	260	295	3875	415	410	375
	CNT	12	13	18	19	19	20	24	24	24	24	25	25	24	25	23	24	25	25	25	26	16	9	9	9
	UQ	350	310	310	275	250	245	265	245	235	220	220	215	220	215	220	220	235	250	270	300	400	430	435	390
	LQ	285	240	245	235	220	220	245	240	225	215	210	205	200	200	200	205	210	230	250	290	325	370	375	345
(M3000)F2	MED					U			U				U					U	U		U				
	CNT			2	4	315	330	310	310	290	270	2575	2525	250	245	2525	250	250	245	240	250	2325	225		
	UQ				6	6	12	16	21	19	22	18	16	14	16	12	19	24	18	16	7	8	5	3	2
	LQ				325	330	330	315	320	315	295	280	260	250	240	260	260	260	255	260	260	240	240	240	
					300	310	320	300	300	280	265	240	240	240	230	245	235	240	240	230	235	220	205	220	
foF1	MED																								
	CNT											2	1	1	1										
foE	MED							175	260	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT							15	18	320	350	375	390	400	400	380	365	340	300	230					
										19	19	15	12	10	11	11	12	12	14	16					
h'E	MED							E	E																
	CNT							153	119	111	111	111		111	111	111	111	111	111	115					
								14	18	17	17	11	3	5	7	14	13	15	9	10					
foEs	MED																								
	CNT		31	245					45	515	57	57	62	64	55	50	55	58	57	50					20
		24	24	24	23	25	25	24	23	22	23	25	25	23	25	25	25	24	25	25	26	26	23	25	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 11

CONCEPCION, CHILE (36.6S, 73.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	101	101	96	87	785	84	92	92	97	1065	117	1269	130	131	131	128	121	118	1135	97	94	97	995	D 100
	CNT	27	29	29	26	28	30	29	30	29	28	29	28	29	29	29	28	27	29	30	30	30	29	28	29
	UD	108	108	100	90	86	90	95	102	110	118	128	133	136	135	136	136	130	126	120	106	100	105	105	106
	LQ	96	94	86	80	70	78	82	87	88	97	110	120	118	125	117	117	114	102	101	92	90	94	94	94
h'F2	MED										U	E		E											
	CNT						2	2	1	4	5	8	2255	17	19	20	18	290	3						
	UD											375	340	355	345	340	330	310	310						
	LQ									380	295	330	310	320	295	310	290	280	275						
h'F	MED	310	290	270	260	280	250	240	U 230	U 230	U E 225	E 220	E 220	E U 240	U 245	U 235	E 240	240	U 2525	265	280	330	3475	340	330
	CNT	29	29	30	29	30	30	30	30	29	28	22	27	24	27	27	25	25	28	30	30	30	30	30	30
	UD	320	290	280	270	315	260	250	250	250	250	220	245	260	270	260	260	255	265	270	300	350	360	350	340
	LQ	290	280	260	230	245	240	230	230	220	220	205	210	215	220	220	220	230	240	260	265	310	330	320	310
(M3000)F2	MED	270	280	280	2775	2675	270	2775	285	275	2675	275	280	280	285	290	295	295	295	295	270	2525	250	2575	260
	CNT	27	29	29	26	28	29	28	29	28	28	29	28	29	29	29	27	27	29	30	29	26	27	28	23
	UD	275	290	300	290	275	290	305	300	290	280	280	290	290	295	295	300	305	300	300	280	260	255	260	265
	LQ	260	270	270	260	255	260	265	270	260	260	270	270	270	270	280	285	290	285	285	260	245	245	250	255
foF1	MED																								
	CNT						2	2	1	2	1	1	2	2	3	1	1	1							
foE	MED										U	U	U	U	U										
	CNT						2025	265	310	340	360	380	390	400	385	3725	350	320	270	200					
							22	26	25	30	24	17	14	17	17	20	17	19	18	5					
h'E	MED						E													E					
	CNT						130	111	109	109	109	109	111	111	111	111	109	109	113	129					
							28	29	28	30	29	29	26	25	25	28	26	23	21	11					
foEs	MED	31	26	245	26	185	23	33	405	43	45	44	425	44	46	40	415	38	40	415	36	36	40	36	315
	CNT	29	29	30	30	30	30	30	30	30	29	30	30	29	29	29	28	27	29	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 12

BYRD STATION (80.0S, 120.0W)

TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U								U	U	U	U	U	U	U	U	U	U
	CNT	515	54	595	58	58	57	53	595	58	61	615	65	70	73	76	74	66	635	59	595	625	675	575	65
	UD	8	11	8	9	9	9	16	14	17	19	20	18	19	20	18	14	15	16	15	16	14	10	10	6
	LQ	62	65	71	68	63	64	62	65	66	66	68	74	75	79	84	84	84	80	71	68	66	71	70	71
		44	49	48	50	52	53	49	52	54	56	58	62	64	62	68	55	55	56	50	52	55	53	52	57
h'F2	MED	U	E	U	E		E	U		U				U				U	E		U	U	U	U	U
	CNT	350	400	3625	340		315	290		370	370	3325	3475	335	350	325	335	335	3525	3375	375	385	350	350	350
	UD	7	9	6	7	3	6	7	4	5	11	10	12	16	16	15	12	8	12	12	13	9	5	7	8
	LQ	400	440	400	360	440	360	350	510	400	410	360	380	365	420	380	380	360	370	405	430	430	415	360	360
		320	355	345	300	370	290	265	285	300	300	315	310	290	315	315	295	305	325	310	320	355	335	310	340
h'F	MED	U						U	E							U	U	U	U	U	E	E	U	E	
	CNT	270						2475	2625	250	2425	240	245	230	2375	2425	260	255	280	270	260	2775	310	340	300
	UD	6	2	2	1	4	4	8	12	13	16	18	15	16	18	14	12	11	14	13	15	10	7	5	5
	LQ	295				250	255	280	265	260	255	250	255	240	255	255	300	280	290	280	285	295	350	360	310
		250				250	225	235	250	240	230	235	230	225	230	230	230	250	265	250	250	250	260	270	285
(M3000)F2	MED		U	U	U	U	U															E	U	U	E
	CNT		265	275	2775	2775	2875	295	295	290	290	290	285	280	2775	2725	275	280	275	2725	2725	260	2675	295	260
	UD	4	9	5	8	6	8	13	12	15	17	18	17	19	16	14	8	14	13	10	14	7	6	3	5
	LQ	270	270	295	290	285	300	300	300	315	305	300	300	295	290	285	285	290	290	280	285	270	270	295	290
			255	260	260	260	270	280	285	270	280	280	280	270	250	255	270	270	265	265	260	240	260	280	255
foF1	MED																			U					
	CNT	3						1	2	2		420		440	440	440	U 410	4	3	400 5	4	3		1	1
												5	4	8	9	7	8								
foE	MED	1				1	2	1	1	3	2	2	4	U 290	3075			4	1	2	3	1		1	
	CNT													7	6	4	4								
h'E	MED											U	E	U	107	109	106	107	111	109	E 112	U			
	CNT	2			1	2	2	1	3	3	3	108 6	109 8	7	10	5	6	8	7	9	8	115 7	2	2	2
foEs	MED																								
	CNT	17	18	15	10	10	11	13	12	15	18	19	18	20	19	17	17	17	18	17	20	19	17	16	18

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

NOVEMBER, 1960

TABLE 13

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 43	U 42	U 43	U 37	U 38	U 365	U 44	U 46	U 50	50	495	53	57	60	67	67	725	53	395	U 49	U 36	U 32	U 36	U 43
	CNT	5	6	5	8	10	6	7	6	9	11	14	15	19	19	24	23	22	19	18	15	9	9	7	11
	UQ	60	42	46	44	46	51	48	52	54	59	66	72	79	83	88	88	90	80	68	60	51	55	47	48
	LQ	41	41	38	32	31	30	27	43	36	41	42	48	47	52	55	57	48	46	38	36	30	29	34	33
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 270	U 265		U 265	U 260	U 2525	U 260	U 2675	U 290	300	285	295	290	2875	2825	290	300	290	2925	U 280	U 280	U 280	U 265	280
	CNT	5	5	4	7	9	6	7	6	9	11	13	13	18	18	24	21	19	19	18	15	8	6	5	11
	UQ	290	280	270	270	290	265	260	280	300	310	310	305	305	300	300	305	305	310	300	295	290	285	280	290
	LQ	260	260	260	250	255	250	245	250	275	280	275	280	280	265	270	280	285	275	250	265	250	260	255	270
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	63	70	51	485	385	30	345	32	375	395									25	335	385	68	48	55
	CNT	23	21	20	20	24	15	16	15	16	16	13	11	16	18	23	23	24	22	23	24	24	23	25	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1960

TABLE 14

GODHAVN, GREENLAND (69.3N, 53.5W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 39	U 36	U 325	U 36	U 345	U 33	U 32	U 36	U 45	U 505	U 64	U 66	U 59	U 535	U 56	U 55	U 54	U 55	U 50	U 51	U 50	U 56	U 50	U 45
	CNT	14	18	16	14	12	9	6	12	15	16	19	20	23	24	24	22	23	26	23	18	21	20	13	11
	UQ	45	37	38	41	42	39	37	38	48	65	77	88	73	72	64	61	60	61	59	57	58	63	58	51
	LQ	36	31	30	28	30	30	29	34	42	42	49	54	49	48	46	47	48	50	46	45	40	46	40	39
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 280	U 275							U 300	U 275	U 290	U 3075	290	U 300	U 305	U 315	U 310	U 305	U 290	U 295	U 2875	U 290		
	CNT	5	5	4	1	4	3	1	3	9	8	15	10	10	14	16	11	11	18	13	8	8	7	3	4
	UQ	300	290	295		305	290		270	300	300	315	310	310	300	310	330	315	310	295	300	290	300	305	305
	LQ	260	265	280		290	280		270	280		270	285	270	280	290	295	295	300	285	290	280	290	290	300
foF1	MED									U 335	U 360	U 380	U 380												
	CNT									6	6	7	10	4	3	1									
foE	MED										1	4	1	1	3	3									
	CNT																								
h'E	MED																								
	CNT										1	4			4	2		1							
foEs	MED																		37	38	50	40	28		
	CNT	29	26	29	27	25	27	27	27	28	27	29	26	31	29	29	28	31	30	31	30	30	29	29	27

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

OCTOBER, 1960

TABLE 15

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 35	U 595	U 45	U 42	U 45	U 42	U 375	U 475	55	58	66	69	67	815	69	69	73	65	57	54	U 425	40	U 37	38
	CNT	5	6	4	7	9	7	12	10	14	16	15	21	22	18	25	28	26	23	20	16	18	11	12	9
	UQ	56	62	51	60	58	45	47	54	60	70	80	88	94	99	95	94	90	87	76	64	52	46	44	41
	LQ	31	43	38	34	36	29	34	40	46	51	60	52	50	63	54	56	58	50	39	43	34	35	29	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 275	U 2625		U 260	U 265	U 260	U 280	U 305	310	305	305	300	2975	300	300	300	300	305	3025	305	2975	305	2925	2775
	CNT	5	6	3	7	6	6	10	10	14	15	15	21	22	18	25	27	26	23	18	16	18	11	12	8
	UQ	290	265	280	280	280	270	285	310	320	315	315	305	300	305	300	310	310	320	310	315	310	305	305	290
	LQ	260	260	250	250	260	260	275	300	305	285	295	280	270	285	285	285	290	280	295	300	285	290	280	270
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	465	43	51	45	40	305	26													22	28	40	39	35
	CNT	24	21	26	21	21	14	17	11	15	16	15	22	23	18	22	28	27	27	25	29	31	31	30	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1960

TABLE 16

REYKJAVIK, ICELAND (64.1N, 21.8W)

TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 39	D 38	D 40	D 40	U 40	U 40	U 375	43	56	64	695	725	805	72	63	60	54	D 52	D 555	Q 46	U 47	U 44	D 35	D 40
	CNT	4	3	3	3	5	7	12	13	14	17	20	28	26	25	26	23	23	19	14	10	4	7	3	1
	UQ	47	40	55	52	48	48	40	49	67	80	86	96	100	98	94	94	83	85	66	65	52	57	42	
	LQ	35	36	37	34	39	39	34	38	50	54	58	57	62	61	58	49	49	45	47	40	40	39	34	
h'F2	MED											U 300	U 320	U 320											
	CNT											3 5	5	5	2			1							
	UQ											350	440	400	420										
	LQ											315	280	270	285										
h'F	MED	U 360	U 330	U 325	U 300	E 300	280	U 270	E 250	230	230	220	230	E 2275	225	U 230	U 240	E 250	240	250	3275	280	E 280		U 300
	CNT	5	6	6	9	9	10	12	12	14	15	15	23	22	21	23	21	23	19	16	14	10	8	4	5
	UQ	400	350	360	335	320	290	305	270	250	250	250	280	235	250	260	275	290	300	310	350	330	310	390	340
	LQ	265	310	300	275	265	265	255	240	220	210	220	220	220	220	220	220	220	220	220	220	230	270	260	245
(M3000)F2	MED							U 290	3125	325	330	320	310	310	320	320	3125	320	320	310					
	CNT	1	1	1	1	4	3	11	12	14	15	17	25	23	24	23	18	19	7	7	4	3	4		
	UQ					280	320	310	320	335	340	330	325	330	330	330	325	330	330	320	310	300	315		
	LQ																								
foF1	MED												1	3	2	1									
	CNT																								
foE	MED																								
	CNT													1				1	1						
h'E	MED																								
	CNT													1				1	1						
foEs	MED	35	32																	35	33	48	38	36	36
	CNT	13	11	10	14	13	10	12	12	14	15	17	26	22	23	22	20	25	23	28	23	19	18	12	14

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS.

OCTOBER, 1960

TABLE 17

NARSSARSSUAQ. GREENLAND (61.2N. 45.4W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 38	U 40	U 34	U 37	U 39	U 44	U 405	U 54	68	70	70	79	75	74	75	675	54	U 585	U 465	U 48	U 42	U 46	U 48	U 54
	CNT	6	5	7	7	5	11	14	18	19	23	27	27	28	25	21	22	22	16	16	13	6	5	8	3
	UQ	49	54	52	46	54	51	51	57	69	82	91	98	101	102	101	99	92	86	56	62	56	65	56	56
	LQ	35	28	33	33	34	34	36	46	54	55	58	64	66	62	59	55	44	49	38	42	38	44	36	52
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 250				U 260	U 280	U 285	U 315	U 315	310	295	290	295	300	300	305	305	U 300	U 285	U 270		U 265	U 265	
	CNT	6	3	3	2	5	9	8	17	19	21	27	24	27	25	21	19	19	13	13	12	4	5	7	2
	UQ	285	275	265		270	290	300	315	320	320	315	310	305	305	310	320	315	305	300	280	300	290	270	
	LQ	250	260	250		260	260	280	305	305	295	280	280	275	270	290	295	280	285	250	255	265	250	265	
foF1	MED												U 400												
	CNT										3	4	5	4	3	2	2								
foE	MED										2675	285	2825	290	280	270	U 250	U 245							
	CNT								1	1	6	10	14	14	15	15	10	11	1		1				
h'E	MED										116	U 115	115	113	113	110	E 119	U 123	117						
	CNT								1	2	10	13	17	19	19	22	17	15	5	1	1		1		
foEs	MED	30	335	34	435	38	33	35										28	35	405	325	36	50	45	52
	CNT	24	28	28	28	21	21	21	19	22	27	28	30	29	30	29	30	31	30	30	28	27	27	24	24

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1960

TABLE 18

BOULDER, COLORADO (40.0N, 105.3W)

TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 405	D 41	435	41	D 39	37	U 435	U 60	73	84	985	1055	107	108	107	103	97	925	76	60	50	415	40	405
	CNT	20	19	16	15	14	14	16	21	19	19	18	20	21	21	20	22	22	22	21	21	23	22	22	22
	UQ	44	45	44	45	44	43	48	68	85	98	105	110	116	117	119	118	112	105	92	77	62	50	47	45
	LQ	32	36	40	30	31	33	34	46	63	62	85	88	88	88	90	85	84	81	68	57	41	35	33	35
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	2825	270	270	275	275	U 275	U 300	315	3175	310	310	305	2925	2975	300	305	315	315	310	3075	305	2975	295	280
	CNT	16	15	13	11	10	9	7	14	14	15	15	17	18	18	17	19	19	18	17	16	17	18	17	18
	UQ	290	285	290	290	285	290	325	335	330	320	315	310	300	305	310	315	320	320	320	315	320	310	300	295
	LQ	270	270	260	265	270	260	265	305	310	290	285	285	290	290	285	300	305	310	300	300	290	290	280	275
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED							12										235	31	34					
	CNT	22	22	21	20	20	21	21	21	20	20	19	20	21	21	20	21	20	22	22	21	22	23	23	24

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS.

OCTOBER, 1960

TABLE 19

GRAND BAHAMA I. (26.6N, 78.2W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	57	53	49	44	44	49	81	91	985	116	120	120	120	1245	D 1205	1175	U 110	D 90	72	64	605	585	58
	CNT	30	29	27	29	26	27	28	29	30	28	28	29	27	27	26	28	28	27	28	28	28	26	28	29
	UQ	62	59	57	56	50	49	52	84	100	108	120	128	121	128	130	130	124	115	90	78	70	69	66	64
	LQ	51	50	50	45	40	40	44	76	89	94	104	112	114	117	118	118	114	92	90	68	56	55	52	51
h'F2	MED											U 275	U 2675		U 290	U 275									
	CNT									1	2	5	8	4	7	6	3								
	UQ											340	280	320	310	300	275								
	LQ											260	260	254	289	260	250								
h'F	MED	260	260	260	2425	250	275	260	232	225	215	215	220	215	220	E 2275	230	230	2325	2175	215	245	260	260	260
	CNT	31	31	30	30	30	29	30	30	31	28	29	31	30	29	28	30	30	30	30	30	30	29	31	31
	UQ	290	290	270	258	280	300	280	240	230	220	220	220	220	230	236	235	237	240	220	230	260	280	278	285
	LQ	245	240	245	230	230	265	250	230	220	210	210	210	209	214	220	225	225	220	210	205	230	259	250	250
(M3000)F2	MED	295	290	2925	300	280	2775	290	330	330	315	310	300	295	290	295	300	300	305	U 310	300	285	285	280	285
	CNT	29	28	26	27	25	26	28	29	26	24	28	29	27	27	25	27	26	16	10	26	27	26	28	29
	UQ	300	300	300	315	290	285	300	335	335	320	315	310	300	300	310	305	310	310	320	310	290	290	290	295
	LQ	270	270	280	285	265	265	285	320	320	310	300	300	285	285	290	290	290	300	305	290	275	275	270	275
foF1	MED																								
	CNT									1	1	2	1	1	2	2									
foE	MED								230	300	320	350	360	370	365	350	330	2975	225						
	CNT							2	21	18	12	18	20	19	20	23	25	20	13	1					
h'E	MED								E 119	110	E 110	1095	110	109	U 110	U 108	U 110	E 1135	E 120						
	CNT							3	29	31	28	28	30	27	26	26	29	28	22	1					
foEs	MED															37	345	31	26	23					
	CNT	30	30	29	29	29	28	29	29	30	28	28	29	28	27	27	28	28	28	28	28	29	27	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1960

TABLE 20

MAUI, HAWAII (20.8N, 156.5W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	61	53	45	345	275	28	37	74	100	115	127	135	142	150	153	153	138	132	126	104	95	D 90	83	U 72
	CNT	31	31	31	30	30	29	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	UQ	68	63	53	40	34	37	40	80	109	123	132	142	146	158	156	158	150	140	131	130	123	107	100	91
	LQ	53	47	34	29	24	24	32	68	93	109	121	127	134	140	147	136	130	122	106	91	80	80	68	63
h'F2	MED											U 260	275	280	2825	320	U 270	U 2525							
	CNT								1	3	4	9	12	10	16	17	9	6							
	UQ											280	285	320	320	325	300	280							
	LQ									260	250	250	255	270	270	280	250	245							
h'F	MED	235	230	E 240	U 260	E 300	E 310	3025	250	235	220	210	210	205	210	215	230	230	235	230	230	230	E 240	235	230
	CNT	31	31	31	30	30	30	30	31	31	31	31	31	30	29	31	30	31	31	31	31	31	31	31	31
	UQ	260	250	270	285	340	350	330	255	240	225	215	215	210	220	230	240	240	240	235	235	235	250	250	245
	LQ	220	225	225	245	235	290	285	245	230	220	210	205	200	200	205	215	225	230	220	220	220	230	225	225
(M3000)F2	MED	310	3075	300	2875	265	270	265	330	325	310	305	300	295	295	300	300	305	3125	320	320	310	310	3075	U 310
	CNT	29	30	31	28	29	29	28	31	31	31	31	31	31	31	31	31	31	30	31	29	28	25	28	28
	UQ	330	330	335	320	300	280	270	335	330	320	315	310	300	300	305	310	315	325	330	330	325	320	320	325
	LQ	290	290	275	260	260	260	255	310	300	300	285	285	285	285	285	290	295	310	310	310	295	280	300	290
foF1	MED																								
	CNT								1	1	1	1	1	2	2	1	1								
foE	MED								225	290	330	350	370	U 375	375	365	3375	3025	2525						
	CNT							1	25	24	23	20	20	23	23	23	20	16	14	1					
h'E	MED								121	113	109	109	107	107	107	107	107	107	112						
	CNT								25	30	31	31	27	25	25	22	17	15	8	2					
foEs	MED								22	31	36	39	40	39	40	40	42	39	44	42	33	25	20		
	CNT	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

OCTOBER, 1960

TABLE 21

CONCEPCION, CHILE (36.6S, 73.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	915	94	93	765	65	695	90	955	105	1175	1265	136	1375	142	1455	145	141	136	135	1175	D 955	95	D 99	97
	CNT	24	27	27	28	28	24	26	28	30	28	28	27	28	29	30	30	28	30	30	30	26	26	26	26
	UQ	106	109	107	86	80	81	98	104	117	126	134	144	148	148	155	156	150	144	140	130	114	110	106	104
	LQ	82	86	82	66	58	61	81	90	101	114	122	126	131	132	135	135	134	128	122	100	90	88	86	84
h'F2	MED														U 270	U 280									
	CNT										3	4	3	3	5	5	2	1	1						
	UQ										280	275	280	305	335	320									
	LQ										250	250	260	290	260	270									
h'F	MED	3025	280	250	230	270	260	230	230	2275	220	U 220	U 220	E 220	E 220	U 220	E 230	235	250	260	250	280	320	300	310
	CNT	26	29	29	29	28	27	27	29	30	28	26	26	26	27	29	29	27	29	30	30	27	27	27	27
	UQ	320	295	270	250	320	280	240	230	230	230	230	250	240	240	255	245	240	250	260	260	290	330	315	320
	LQ	290	260	240	210	230	245	220	220	220	220	210	210	210	200	210	220	230	245	250	240	265	290	290	290
(M3000)F2	MED	265	285	300	285	260	275	320	310	295	295	290	290	290	285	2825	2925	2925	300	300	290	260	260	270	270
	CNT	24	27	27	28	28	24	26	28	30	28	28	27	28	29	30	30	28	30	29	28	20	23	24	24
	UQ	280	295	325	310	270	280	330	325	310	305	300	300	295	290	295	300	300	300	310	300	275	270	270	270
	LQ	260	270	290	270	255	265	310	290	290	285	280	280	290	280	280	285	290	290	295	280	255	250	260	260
foF1	MED																								
	CNT																								
foE	MED						145	230	290	330	360	U 370	375	380	U 370	360	U 330	300	240						
	CNT						17	23	26	29	25	23	18	21	18	19	12	19	15	4					
h'E	MED						E	118	109	109	109	109	109	109	109	110	109	109	119						
	CNT						20	26	29	30	29	28	25	28	28	30	27	25	20	3					
foEs	MED	20		15			16	27	32	365	40	435	45	43	44	405	37	335	295	28	275	21			19
	CNT	26	29	29	29	28	27	27	29	30	29	28	27	28	29	30	30	28	30	30	30	27	27	27	27

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1960

TABLE 22

BYRD STATION (80.0S, 120.0W) TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 58	U 48	U 53	58	56	58	55	585	62	65	71	79	74	775	U 705	U 625	U 60	U 62	U 60	U 58	U 565	U 515	U 56	U 575
	CNT	15	17	15	14	13	14	17	18	21	25	26	24	27	22	20	20	22	29	19	16	24	18	19	12
	UQ	67	60	60	60	63	61	64	64	65	71	76	84	88	85	90	92	75	74	70	64	64	63	66	62
	LQ	49	47	49	53	50	52	51	50	56	61	62	69	54	53	56	52	54	52	50	54	50	49	49	53
h'F2	MED									E 295	320	360	350	335	370	E 2875	320	E 310	U 400	E 3925					
	CNT							1	2	6	16	19	18	18	19	14	13	13	7	6	4	3		1	1
	UQ									370	400	410	420	410	390	410	390	390	500	435	400	450			
	LQ									275	280	290	260	270	265	270	290	300	350	320	350	370			
h'F	MED	U 3275	U 375	325	3075	U 280	265	U 265	U 260	255	U 250	U 250	240	U 2575	U 245	U 250	E 275	270	E 290	290	300	E 3175	3025	315	310
	CNT	18	19	13	14	11	13	14	15	17	19	19	21	26	21	18	16	16	25	17	17	26	24	21	15
	UQ	365	410	365	345	300	290	300	285	280	280	280	290	280	300	285	310	300	330	310	335	350	330	350	360
	LQ	320	320	290	280	260	250	255	245	240	240	235	235	240	230	245	250	255	270	270	275	290	280	270	285
(M3000)F2	MED	U 265	U 2625	260	280	290	300	2975	295	300	300	300	300	285	295	2825	280	U 280	U 270	U 270	U 2725	U 2675	U 2775	U 2625	U 260
	CNT	7	12	11	13	11	13	14	15	19	24	25	23	26	22	16	17	17	21	13	10	14	14	14	8
	UQ	280	270	275	285	290	300	305	315	310	310	310	310	300	305	300	290	300	300	300	290	285	285	280	270
	LQ	260	250	255	270	280	285	290	290	285	270	260	260	260	260	275	260	275	260	260	265	260	270	255	250
foF1	MED											405	395	U 390	U 405	400									
	CNT									2	4	6	10	11	8	7	4	3	2	2		2			
foE	MED		U 295	U 290	U 225		U 220			U 245	250	U 270	270	U 280	U 270	U 2725	U 260	305	2775	U 295	255	U 240		U 220	
	CNT	4	6	5	6	2	5	4	4	7	9	9	12	13	11	10	9	8	12	8	6	7	2	5	4
h'E	MED		U 116	121	U 121		U 115	U 115	U 114	U 111	E 112	111	U 111	U 111	113	112	114	113	E 117	119	122	U 123	U 125	122	121
	CNT	4	6	6	7	4	7	5	6	9	10	9	13	18	15	14	10	14	14	11	8	11	9	8	5
foEs	MED																						21		
	CNT	20	21	15	14	11	13	15	16	20	25	27	27	30	28	25	26	28	30	25	24	29	29	23	19

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1960

TABLE 23

BYRD STATION (80.0S, 120.0W) TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 565	U 57	U 52	U 525	U 54	U 52	565	U 59	645	715	785	83	U 89	81	U 82	U 615	U 59	U 595	U 61	U 61	U 63	U 51	U 56	U 55
	CNT	16	13	19	18	16	19	20	23	26	26	28	27	25	22	20	18	15	16	15	14	16	11	16	13
	UQ	60	60	60	63	61	59	62	67	72	78	86	92	96	94	90	81	75	72	68	65	66	64	69	69
	LQ	50	40	43	44	48	45	48	52	55	61	69	72	74	60	54	55	49	56	58	49	57	49	47	50
h'F2	MED													U 290	E 3125	U 275									
	CNT										1	3	4	9	8	5	4	1							
	UQ											305	340	335	360	430	405								
	LQ											285	285	275	270	260	320								
h'F	MED	3425	U 360	U 355	U 315	U 2875	U 2875	E 260	245	U 250	E 2425	E 245	245	245	250	U 255	U 265	E 260	E 290	E 310	U 330	E 3075	U 3025	U 3025	E 310
	CNT	20	14	19	17	16	18	21	23	26	26	26	27	25	21	18	19	16	20	18	19	16	24	24	18
	UQ	390	430	365	395	330	315	290	275	270	260	260	270	270	270	265	305	300	320	330	360	355	355	355	360
	LQ	310	340	300	275	250	250	240	235	235	230	235	235	240	240	245	250	250	260	280	280	270	280	275	280
(M3000)F2	MED	U 260	U 260	U 260	U 265	U 270	U 285	300	U 305	310	305	305	300	300	2975	U 300	U 295	U 2975	U 290	U 275	U 265	U 2675	U 250	U 260	U 265
	CNT	10	9	14	14	15	17	18	21	25	25	24	26	23	22	20	17	14	12	9	12	10	6	13	7
	UQ	265	265	265	275	280	295	305	310	320	315	320	315	310	305	310	310	305	300	280	280	280	255	270	275
	LQ	250	240	255	255	270	275	290	295	290	295	300	290	285	285	285	275	290	280	270	260	245	250	250	245
foF1	MED																								
	CNT										1			1											
foE	MED								U 200	U 210	U 215	225	230	2375	U 240			U 250	U 250						
	CNT	2			1		1	2	5	5	5	6	7	8	7	4	3	5	7	3	3	1			2
h'E	MED									E 125	E 125	E 122	E 119	E 121	E 121	E 117		U 121	U 127						
	CNT	2			1		1	1	2	5	7	8	9	8	7	5	4	6	8	4	3	1		1	2
foEs	MED	25	345	28	245															35	23	315	275	30	
	CNT	26	24	22	20	19	21	21	22	25	25	26	28	27	23	22	25	22	22	25	27	24	26	25	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. SEPTEMBER, 1960

TABLE 24

POLE STATION (90.0S) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 56	U 625	U 60	U 59	U 62	U 61	U 70	U 615	U 49	U 49	U 50	U 46	U 53	53	U 56	U 71	81	U 575	U 52	U 46	U 525	U 455	U 47	U 48
	CNT	18	20	22	23	25	19	15	16	16	18	14	12	11	14	18	19	19	18	11	13	8	16	15	15
	UQ	59	69	70	78	75	78	84	74	68	60	57	54	56	68	71	78	91	79	75	50	58	58	55	55
	LQ	46	55	54	47	50	47	52	50	42	43	45	40	45	47	47	56	69	45	42	40	46	44	43	45
h'F2	MED																								
	CNT			1		1	2	1																	
	UQ																								
	LQ																								
h'F	MED	260	250	270	275	275	280	280	2825	E 305	280	320	300	285	310	2675	260	255	2675	285	295	U 2775	265	260	250
	CNT	23	26	27	28	25	26	23	16	18	14	15	15	17	15	22	25	22	20	15	15	14	12	19	22
	UQ	295	270	285	290	290	305	340	300	350	330	340	325	320	350	290	290	260	320	330	340	315	285	290	270
	LQ	235	240	250	255	260	265	255	265	275	265	295	285	260	265	255	240	245	255	265	270	265	250	240	230
(M3000)F2	MED	U 285	U 280	U 275	U 270	U 270	U 260	U 265	U 270	U 250	U 260	U 270	U 270	U 280	2875	U 295	3025	295	290	U 295	U 280	U 285	U 2875	U 300	U 290
	CNT	14	15	17	17	19	12	9	7	9	10	11	9	8	12	16	18	18	14	10	10	7	8	13	13
	UQ	295	300	290	280	275	280	280	270	260	280	270	280	290	300	300	315	305	300	305	300	310	310	305	300
	LQ	285	270	265	260	260	255	245	255	240	255	250	260	270	270	280	290	280	270	270	270	270	270	280	280
foF1	MED																								
	CNT			1		1																			1
foE	MED	U 1625	U 170	160	U 155	U 155	U 160	U 160	U 160	U 210	D 230	U 240	U 2575	U 2625	290	U 240	U 220	U 1825	1775	U 195	U 220	U 210	205	U 190	160
	CNT	8	7	10	10	11	9	7	5	5	10	5	8	8	14	11	10	12	10	11	12	9	10	11	5
h'E	MED	121	123	121	127	E 132	135	119	115	121	115	111	108	109	108	109	115	115	121	117	117	119	126	125	121
	CNT	13	8	12	11	14	15	9	9	11	15	9	10	11	16	15	14	14	15	13	13	12	14	15	14
foEs	MED	D 175	20																			27	21	20	21
	CNT	30	29	29	30	29	30	28	25	28	25	24	24	24	23	26	27	28	28	27	28	28	29	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. SEPTEMBER, 1960

TABLE 25

INVERNESS, SCOTLAND (57.4N, 4.2W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	53	48	45	46	51	56	64	66	66	70	70	72	72	72	74	75	78	79	77	77	72	67	60
	CNT	25	24	26	24	27	27	27	26	29	29	29	29	28	29	28	26	26	28	28	23	28	27	28	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	230	240	250	270	280	285	280	270	265	265	260	260	260	265	265	270	275	270	275	260	260	245
	CNT	22	17	19	20	24	25	23	26	26	24	23	25	25	27	26	26	25	28	28	19	23	22	19	15
	UQ																								
	LQ																								
foF1	MED							U									U	U	U						
	CNT							390	440	470	490	510	530	540	550	540	510	500	430						
								1	6	9	10	15	11	11	9	6	5	4	1						
foE	MED				U												E								
	CNT				100	150	190	245	285	310	340	360	370	375	370	370	360	340	310	270	230	180			
					1	8	16	23	26	26	28	24	21	15	18	21	18	22	26	28	18	10			
h'E	MED																								
	CNT																								
foEs	MED						G	G							G	G	G	G	G				E	E	E
	CNT	11	14	13	14	14			29	32	35	37	39	39						31	27	21	16	16	16
		26	29	29	28	28	24	26	27	28	30	31	29	29	28	28	26	29	29	29	27	30	31	31	31

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

AUGUST, 1959

TABLE 26

FALKLAND IS. (51.7S, 57.8W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	37	38	39	37	35	36	35	58	85	96	100	112	114	102	95	93	86	72	57	47	42	38	37	38
	CNT	31	31	30	31	31	31	31	30	31	31	31	31	31	30	31	31	31	30	31	31	29	31	31	31
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	230	230	235	240	240	235	270	300	340	320	315	320	315	320	315	325	325	315	315	295	280	255	240	230
	CNT	12	21	22	21	15	16	10	10	20	18	22	19	18	22	27	19	23	13	8	12	13	12	15	18
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								E																
	CNT								15	245	280	300	310	325	320	300	270	230							
										15	14	23	16	14	14	11	18	13	1						
h'E	MED																								
	CNT																								
foEs	MED				E	E	E	E	G																
	CNT	24	26	24	10	10	10	11		24	33	37	46	46	46	38	33	37	29	31	30	26	24	24	28
		30	30	30	30	29	31	30	26	27	28	30	30	28	31	29	31	30	30	31	29	27	25	30	30

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

AUGUST, 1959

TABLE 27

TSUMEB, SOUTH W. AFRICA (19.2S, 17.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	303	29	278	268	24	247	418	83	1004	112	1143	1132	1132	1102	109	1098	1138	1125	99	676	487	47	419	35
	CNT	24	24	24	25	24	26	29	29	30	29	30	30	27	29	29	29	27	29	29	26	28	28	28	25
	UQ																								
	LQ																								
h'F2	MED													340	320		295	299							
	CNT													1	4		1	2							
	UQ																								
	LQ																								
h'F	MED	262	280	260	240	280	279	270	230	230	223	220	220	220	225	228	235	241	240	219	213	235	242	240	240
	CNT	19	21	19	20	20	20	28	29	30	29	29	28	26	26	27	22	20	23	20	16	17	16	19	18
	UQ																								
	LQ																								
(M3000)F2	MED	284	280	288	303	283	285	265	336	328	312	302	292	285	275	274	273	282	299	318	317	301	314	301	280
	CNT	23	23	24	25	23	25	29	29	30	29	30	30	27	29	29	29	27	29	29	26	28	28	28	25
	UQ																								
	LQ																								
foF1	MED													675	583		533	470							
	CNT													1	4		1	2							
foE	MED							104	224	302	345	367	383	382	375	360	336	294	198						
	CNT							1	25	30	27	25	23	22	21	25	26	23	10						
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES.

JUNE, 1959

TABLE 28

DELHI, INDIA (28.6N, 77.2E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	U	D	D	D	D						U	D	D	D	D	D	D	D	D	D	D	D
	CNT	98	94	77	68	71	88	106	118	128	138	146	146	149	151	152	150	150	147	144	134	125	116	112	104
	UQ	30	27	10	9	27	29	26	23	23	25	26	21	26	25	22	27	27	27	26	28	18	19	25	28
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						U	U	U					U	U				U						
	CNT						280	315	335	305	300	285	285	280	280				285						
	UQ	2	1			4	8	6	6	15	20	19	13	7	8	1	3	2	6	4	3	3	2	2	1
	LQ																								
foF1	MED																								
	CNT																								
foE	MED												U												
	CNT								1	320	360	370	370			2	360	340							
										13	11	7	3		2	2	6	9	1						
h'E	MED												U												
	CNT								1	100	100	100	100			2	100	100							
										13	11	7	3		2	2	6	9	1						
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

APRIL, 1959

TABLE 29

AHMEDABAD, INDIA (23.0N, 72.6E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	150	142	115	85	77	73	82	105	124	131	142	151	155	D 160	D 160	D 160	D 160	D	161	155	154	162	153	150
	CNT	24	22	24	24	24	22	24	23	21	26	26	24	27	15	23	21	17	24	20	25	22	21	23	21
	UQ																								
	LQ																								
h'F2	MED										300	350	390	400	400	400	380	350	350						
	CNT										27	26	25	25	23	23	21	18	24						
	UQ																								
	LQ																								
h'F	MED	265	250	245	230	270	270	260	250	250	250	U 230										340	310	300	300
	CNT	24	23	24	24	25	24	24	23	21	9	3						2	12	28	27	26	25	25	25
	UQ																								
	LQ																								
(M3000)F2	MED	280	300	305	280	260	260	285	300	280	265	250	240	240	240	240	245	245	250	255	245	240	255	260	275
	CNT	24	22	24	24	24	22	25	23	22	26	25	24	26	22	22	19	16	22	25	25	21	21	22	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							U 180	270	340	390	400				U 400	390	360	290	210					
	CNT							4	18	14	13	6	1	1	2	4	9	16	21	11					
h'E	MED								113	110	110	110	110	110	110	110	110	110	115	135					
	CNT								17	15	22	21	11	8	11	8	11	20	19	6					
foEs	MED					E	E			G	G	G	G	G	G	G	G	G	G		21	13	E	E	17
	CNT	20	15	21	17	25	24	24	28	19	23	14	5	4	3	2	8	20	24	26	15	25	24	24	24

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC OPERATION.

APRIL, 1959

TABLE [illegible]

BOMBAY, INDIA (19.0N, 72.8E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 126	U 116	D 98	D 89	D 79	D 74	D 75	D 97		D 122	D 129	D 135	D 139	U 135	D 133	D 135	D 139	D 139	D 132	D 131		D 126	D 120	D 129
	CNT	9	7	11	18	24	26	26	29		29	29	27	24	8	26	27	26	27	29	26	2	15	13	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					310	320	U 325	U 310		U 280	U 270													2
	CNT	2	3	4	4	10	12	7	6		9	6		2	1		2			1				2	2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								U 360										U 300						
	CNT							2	4		7	9	4				2	2	3	1					
h'E	MED								U 100		120	120	U 120						U 120						
	CNT							2	4		7	9	4				2	2	3	1					
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION.

APRIL, 1959

TABLE 31

MADRAS, INDIA (13.1N, 80.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	140	122	109	98	86	73	98	123	134	136	121	117	119	117	122	125	130	132	122	118	122	133	131	143
	CNT	28	28	27	25	23	27	30	24	29	30	29	30	27	19	30	28	30	30	27	28	24	29	26	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							315	295	260	230	225	220	220	215	225	225								
	CNT						4	11	21	22	15	10	16	16	9	15	10	4	2						
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION.

APRIL, 1959

TABLE 32

TIRUCHY, INDIA (10.8N, 78.7E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 125		U 102	D 95	U 87	67	97	120	136	135	123	118	118	118	124	128	130		O 116	U 115		U 114	U 115	U 122
	CNT	7	4	6	10	8	19	19	17	24	26	28	28	27	24	27	28	14		28	8	4	5	5	7
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						U 340	U 320	305	270	230	230	230	225	225	220	225	U 225							
	CNT				1		7	7	10	13	11	21	25	25	24	19	19	5							
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION.

APRIL, 1959

TABLE 33

KODAIKANAL, INDIA (10.2N, 77.5E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	116	U 109	104	96	83	74	86	116	133	136	138	118	117	116	118	122	127	130	125	110	U 106	U 111	U 126	U 128
	CNT	10	15	22	23	21	28	27	28	27	28	28	28	27	28	26	27	29	28	30	24	8	7	8	13
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	260	240	240	240	230	225	260	240	230	220	215	210	205	210	215	225	240	260	300	425	430	360	305	275
	CNT	29	29	29	29	29	29	29	28	27	28	28	28	26	27	26	26	28	27	30	26	17	20	24	29
	UQ																								
	LQ																								
(M3000)F2	MED	280	U 280	280	295	305	310	300	290	260	230	220	215	210	210	210	215	220	220	210	U 200	U 205	U 215	U 240	270
	CNT	18	15	22	23	21	28	27	28	27	28	28	28	27	28	26	27	29	28	30	24	8	7	8	13
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							200	290																
	CNT							6	15	4						1			2						
h'E	MED							125	110								110	115	110						
	CNT							7	24	8	2	1			1	1	6	12	12						
foEs	MED	62						43	72	116	126	140	140	144	139	129	120	104	82				32	42	56
	CNT	6	4	2	2	1	1	9	28	27	28	28	28	27	28	26	27	29	29	1			5	6	6

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. APRIL, 1959

TABLE 34

TRIVANDRUM, INDIA (8.5N, 77.0E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 104	D 95	D 94	D 92	91	72	86	115	133	141	138	118	118	119	122	125	130	D 130	D 117	U 98		U 96	U 113	D 117
	CNT	12	11	17	18	11	17	23	25	30	19	14	27	30	30	30	29	25	24	19	6	1	8	9	11
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					U 325	325	310	310	275	240	230	230	230	225	225	230	230	U 230						
	CNT	4	2	3	2	7	13	17	23	29	18	10	26	30	30	29	26	18	5						2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. APRIL, 1959

TABLE 35

MALLEY BAY, ANARCTICA (75.5S, 26.6W) TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 86	U 735	U 70	U 77	U 785	U 76	U 79	U 75	U 76	76	845	87	885	92	95	955	975	99	99	98	U 92	U 92	U 90	U 91
	CNT	17	20	23	25	24	26	26	29	29	29	28	31	30	29	30	30	30	28	27	26	27	24	22	20
	UQ																								
	LQ																								
h'F2	MED				460	480	495	480	520	510	565	730	760	650	595	570	U 475	510	520	760					
	CNT				3	6	10	11	7	8	6	3	5	3	1	3	4	5	4	1					
	UQ																								
	LQ																								
h'F	MED	345	350	355	350	340	295	260	255	250	250	250	250	250	245	245	250	250	250	250	255	260	280	290	310
	CNT	27	27	27	26	25	26	22	27	27	27	26	31	30	29	29	27	27	28	27	28	27	28	26	28
	UQ																								
	LQ																								
(M3000)F2	MED	U 240	U 235	U 230	U 230	U 235	U 230	U 230	U 230	230	240	245	255	260	270	270	285	280	285	285	290	285	280	260	250
	CNT	8	6	10	10	12	16	17	21	22	28	25	27	28	27	29	28	29	26	21	23	19	17	14	14
	UQ																								
	LQ																								
foF1	MED				350	380	410	430	460	495	495	500	490	500	495	495	U 445	425	390	U 370	U 370				
	CNT				3	5	10	11	7	8	7	3	5	4	1	2	4	4	3	1	1				
foE	MED	U 230	170	U 170	U 170	210	230	260	270	295	315	320	330	330	330	320	300	280	260	225	195	180	U 150	U 175	U 175
	CNT	3	5	7	9	11	15	18	22	21	20	18	16	14	17	17	14	18	19	14	12	13	9	3	2
h'E	MED	140	145	120	150	125	120	120	115	115	115	110	110	110	115	115	115	115	115	120	125	145	150	170	150
	CNT	3	5	7	9	11	13	19	22	23	24	21	22	19	24	17	18	20	14	14	12	12	9	2	3
foEs	MED	15	17	16	17	E 21	E 23	E 26	E 27	E 295	E 315	E 32	E 32	E 33	E 33	E 33	E 30	E 28	E 26	E 225	E 195	E 18	15	14	14
	CNT	25	21	22	23	21	22	21	24	23	25	22	26	22	25	23	21	21	23	21	22	19	19	19	24

SWEEP 0.65 MC TO 25.0 IN 5 MINUTES, AUTOMATIC OPERATION. OCTOBER, 1958

TABLE 36

SVALBARD, NORWAY (78.2N, 15.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	69	62	57	66	50	62	74	85	93	101	103	102	100	81	78	81	85	82	83	71	80	91	71	72
	CNT	12	7	7	8	12	11	10	9	11	13	15	15	13	12	12	12	13	15	12	11	9	10	5	11
	UQ	78	80	69	68	66	74	81	88	100	109	113	112	103	96	90	88	90	98	101	97	94	95	100	82
	LQ	49	30	37	63	44	38	46	82	82	80	99	77	81	70	67	70	74	69	69	55	64	73	62	64
h'F2	MED																								
	CNT					1			1	2	1		1			1		1							
	UQ																								
	LQ																								
h'F	MED	295	300	295	305	340	300	290	260	260	255	250	250	250	250	250	250	250	250	260	255	260	265	265	265
	CNT	18	19	17	13	14	12	13	12	13	15	15	17	17	15	15	16	17	15	14	16	18	19	19	20
	UQ	315	335	320	350	410	330	305	290	275	265	260	260	280	255	260	265	265	270	270	270	290	270	290	300
	LQ	260	260	270	270	305	290	285	255	250	250	250	250	240	245	250	250	250	250	250	250	250	250	250	250
(M3000)F2	MED	255	240	240		250	255	260	270	260	255	260	255	270	270	270	270	280	265	270	255	255	255		255
	CNT	7	5	5	3	6	6	8	9	10	12	14	13	9	12	12	11	12	14	10	8	5	7	4	7
	UQ	255	260	265		255	255	270	275	270	260	270	270	270	280	280	280	285	270	270	255	270	255		255
	LQ	230	220	225		230	240	255	255	255	255	255	255	255	260	255	255	260	255	255	255	235	240		240
foF1	MED																								
	CNT																								
foE	MED																								
	CNT	3	4	140 5	180 7	180 8	230 5	250 8	270 10	270 10	275 9	270 11	280 12	280 10	280 15	265 11	280 11	260 6	230 8	4	3	2	1		1
h'E	MED							120	115	110	110	110	110	110	110	110	115	115							
	CNT	1	2	2	2	2	3	5	8	8	6	8	12	9	13	9	10	6	4	1	1				1
foEs	MED	14	31	29	30	15	26	30	29	28	28	25	G	G	G	27	G	32	32	51	39	36	32	35	31
	CNT	10	11	14	16	16	15	13	14	15	15	15	14	14	17	16	16	14	16	12	13	18	14	13	13

SWEEP 0.68 MC TO 24.6 MC IN 5 MINUTES, AUTOMATIC OPERATION. SEPTEMBER, 1958

TABLE 37

ALERT, CANADA (82.6N, 62.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	53	56	54	55	50	52	54	56	54	55	57	55	58	54	55	52	53	55	54	53	52	52	53
	CNT	21	23	21	21	23	20	19	19	17	18	15	19	17	18	17	21	23	22	23	24	23	24	25	24
	UQ																								
	LQ																								
h'F2	MED																			U	U				
	CNT	5	6	3	3	3	3		1	2	3	4	4	2	2	3	4	5	4	500	500	3	4	4	3
	UQ																			5	5				
	LQ																								
h'F	MED																								
	CNT	4	3	3	2		2	3	3		2	3	3	3	1	1	1	1	2	2	1	2	3	1	2
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT	400	400	410	420	440	430	430	440	460	460	460	460	460	460	450	450	450	420	420	420	400	400	400	400
		18	20	17	17	17	21	22	19	18	18	16	17	16	17	19	22	22	23	24	24	22	23	22	18
foE	MED	U							U	U	U	U		U											
	CNT	260	270	270	280	290	290	300	300	300	310	310	310	320	310	310	300	300	300	290	290	280	280	260	260
		8	13	10	10	10	11	10	9	9	8	8	11	9	11	12	12	12	13	11	11	11	11	10	12
h'E	MED																								
	CNT																								
foEs	MED													36											
	CNT	10	14	14	12	12	13	12	13	15	14	14	17	18	18	19	14	16	16	15	15	14	15	13	13

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

JULY, 1958

TABLE 38

ALERT, CANADA (82.6N, 62.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	56	58	52	54	51	52	57	58	56	60	59	60	59	60	60	57	58	56	55	56	54	54	54
	CNT	19	22	19	20	16	17	15	17	18	19	20	21	20	20	17	18	18	20	19	19	21	21	23	21
	UQ																								
	LQ																								
h'F2	MED	430	420	480	480	500	U 480	U 470	510	510	520	510	490	500	480	480	490	490	520	460	520	450	490	500	450
	CNT	12	10	13	11	11	8	5	11	11	12	13	13	15	14	11	14	12	13	11	17	20	11	14	12
	UQ																								
	LQ																								
h'F	MED	240	250	250	240	230	220	220	220	220	220	220	210	210	220	210	220	210	220	220	230	230	240	240	240
	CNT	20	21	17	18	15	14	15	13	15	18	17	15	13	18	18	20	18	19	19	19	18	19	21	19
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT	400	400	420	400	430	440	450	470	480	480	480	480	480	470	470	470	460	450	440	430	410	400	420	400
		18	16	19	17	16	18	15	17	19	21	17	20	18	18	17	19	20	19	18	18	21	15	16	16
foE	MED																								
	CNT	280	280	290	290	300	300	300	310	310	320	320	320	320	320	320	320	310	310	300	300	300	290	280	280
		22	20	14	17	13	15	16	15	16	18	15	16	15	17	18	18	17	17	16	19	17	19	21	20
h'E	MED																								
	CNT	110	110	110	110	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	110	105	110	105
		21	19	17	17	13	16	16	14	17	17	16	15	15	17	17	17	17	17	16	17	16	18	19	17
foEs	MED																								
	CNT	22	21	17	19	17	18	18	17	18	21	20	22	21	22	21	22	22	21	21	22	21	20	22	21

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

JUNE, 1958

TABLE 39

OECEPCION I. (63.0S, 60.7W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	34	33	33	34	34	36	33	34	33	44	70	89	99	101	102	93	82	71	56	40	34	U 33	U 33	35
	CNT	15	20	20	18	16	17	17	12	13	17	27	28	27	10	22	28	27	25	20	17	13	9	8	15
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	U	U	U	U	U	U	U	U	U	U											U	U	U	
	CNT	345	330	335	335	330	340	235	200	200	200	200	195	200	200	200	200	200	200	200	200	215	300	400	
		2	2	3	2	2	3	3	5	3	9	28	27	29	12	27	29	28	23	18	10	2	2	1	
	UQ																								
	LQ																								
(M3000)F2	MED	255	250	250	250	250	255	270	300	285	300	330	345	355	360	340	350	355	340	340	330	300	U 270	U 250	255
	CNT	14	15	20	18	14	17	16	12	13	17	27	28	26	10	22	28	27	24	19	15	10	9	6	15
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS.

JUNE, 1958

TABLE 40

ALERT, CANADA (82.6N, 62.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	59	59	61	58	62	60	62	62	62	64	62	65	63	62	60	55	56	59	57	59	57	56	56
	CNT	25	25	26	25	26	26	26	24	24	24	26	25	27	27	26	25	24	22	21	24	22	24	24	24
	UQ																								
	LQ																								
h'F2	MED	U 510	U 510	500	480	500	530	540	600	580	580	550	550	560	550	580	560	590	520	460	540	U 600	510	U 500	U 550
	CNT	9	10	14	12	11	11	12	12	12	12	13	17	16	14	17	14	12	10	11	10	5	10	6	6
	UQ																								
	LQ																								
h'F	MED	310	310	310	300	300	290	290	290	290	290	300	290	270	280	280	290	280	290	300	300	300	300	300	300
	CNT	22	21	22	20	25	23	25	25	25	19	20	21	17	22	18	20	20	19	18	19	18	21	21	24
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED	380	400	400	420	420	440	440	450	460	460	480	480	470	460	460	450	440	430	410	410	400	400	390	400
	CNT	12	15	18	17	16	17	14	17	18	18	20	23	22	21	21	21	21	21	19	15	11	16	13	12
foE	MED	260	260	260	270	280	300	300	300	310	310	320	320	320	310	310	300	300	300	300	290	280	270	260	260
	CNT	23	24	25	23	24	24	24	23	20	19	18	20	21	21	18	17	19	18	20	19	20	23	25	25
h'E	MED	120	115	115	110	120	110	110	110	110	105	110	110	105	110	110	110	110	110	115	120	120	120	115	120
	CNT	14	16	17	19	17	19	20	21	15	15	13	15	15	12	11	10	12	11	11	11	10	13	17	13
foEs	MED	26	26	26	27	28	30	30	30	31	31	32	32	32	31	31	30	30	30	30	29	28	27	26	26
	CNT	24	25	26	25	27	26	26	26	24	23	25	26	27	28	24	25	25	25	24	23	22	24	23	24

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

MAY, 1958

TABLE 41

OECEPCION I. 163.0S. 60.7W.

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	33	33	34	34	U 34	33	U 35	U 34	U 37	58	84	U 106	U 111	U 127	116	105	92	84	64	50	U 42	36	U 36	U 32
	CNT	11	11	11	10	9	10	7	7	9	11	12	9	9	4	11	11	13	12	13	13	9	11	9	7
	UQ																								
	LQ																								
h'F2	MED								U 235																
	CNT								4																
	UQ																								
	LQ									240	U 210	205	200	190	U 195	195	200	200	200	200					
										5	9	12	11	11	4	11	12	13	13	13					
h'F	MED	U 360	U 360	U 355	U 340	U 360	U 280	U 260	U 235	U 240	U 225		U 200				U 200		U 190		U 200	U 210	U 260	U 245	U 355
	CNT	2	2	5	5	4	5	1	4	5	1		1				1		2		9	4	1	2	1
	UQ																								
	LQ																								
(M3000)F2	MED	240	245	245	U 245	U 255	U 260	U 275	U 275	U 270	285	U 320	U 325	U 335	U 315	345	U 340	335	U 330	330	320	U 320	265	U 250	U 245
	CNT	11	10	10	9	8	8	5	6	9	11	12	9	9	4	11	11	13	12	13	13	9	11	9	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									U 150	U 270	U 180													
	CNT									1	1	1													
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS.

MAY. 1958

TABLE 42

OECEPCION I. 163.0S. 60.7W.

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 80	U 76	77	U 66	67	U 68	73	81	76	86	92	98	96	91	91	93	88	86	86	89	89	89	88	U 85
	CNT	8	8	9	7	9	8	9	9	10	10	12	10	10	12	11	13	13	11	12	12	11	10	10	6
	UQ																								
	LQ																								
h'F2	MED					U 400	U 480	380	380	360	420	360	350	U 360	U 305	U 290	U 300	U 430							
	CNT					1	1	5	5	7	5	5	5	3	4	3	4	1							
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	260	250	260	255	240	260	270	280	285	275	295	300	300	310	315	320	325	320	320	330	315	295	280	265
	CNT	8	8	9	7	9	8	9	9	10	10	12	10	10	12	11	13	13	11	12	12	11	10	10	6
	UQ																								
	LQ																								
foF1	MED					U 250	U 350	U 400	440	490	540	550	U 580	U 570	560	U 570	U 560	U 500							
	CNT					1	1	4	5	7	6	5	3	2	5	1	4	2							
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 30 SECONDS.

FEBRUARY. 1958

TABLE 43

OECEPCION I. 163.0S. 60.7W.

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 94	U 91	U 91	U 90	U 90	U 91	U 94	U 88	U 90	U 82	U 82	U 80	U 80	U 79	U 78	U 78	U 75	U 71	U 76	U 81	U 74	U 78	U 88	U 92
	CNT	2	7	6	6	7	5	8	6	7	4	5	3	2	2	2	3	5	6	4	3	4	3	3	2
	UQ																								
	LQ																								
h'F2	MED	U 325	E 350	360	360	U 410	U 450	430	U 455	450	U 455	U 455	U 450	U 510	U 515	U 460	U 430	U 450	U 445	U 420	U 330	U 300	U 320	U 340	U 350
	CNT	2	6	5	5	7	4	7	4	7	4	4	3	2	2	2	2	3	4	3	2	1	1	1	1
	UQ																								
	LQ																								
h'F	MED	U	U	U	U	310	U	E	E	U 225	U 260	U	U	U 220	E 325	U	U	U 230	U 275	U	U 280	U	U	U	U
	CNT	1	2	3	1	5	2	4	3	4	3	1	3	1	2	2	2	3	4	3	2	3	2	2	1
	UQ																								
	LQ																								
(M3000)F2	MED	U 242	U 250	U 245	U 245	U 245				245	U 250	U 255	U 255	U 240	U 242	U 260	U 255	255	265	U 255	270	U 265	U 250	U 260	U 255
	CNT	2	4	3	3	6	5	8	6	7	3	5	3	2	2	2	3	5	5	3	3	4	3	3	2
	UQ																								
	LQ																								
foF1	MED	U	U	U	U 240	390	450	480	U 530	580	U 570	U 550	U 560	U 600	U 600	U 580	U 580	U 550	U 560	U 560		U 710	U 820	U 480	U
	CNT	1	2	3	2	5	5	5	2	5	3	2	3	2	2	2	1	1	2	2		1	2	2	1
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 30 SECONDS.

JANUARY. 1958

TABLE 44

ALERT. CANADA 182.6N. 62.6W.

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	51	60	58	58	55	52	54	49	60	60	64	62	68	69	76	80	74	68	68	79	68	60	58	59
	CNT	23	22	26	25	24	21	22	25	25	21	22	21	23	23	24	26	21	21	22	20	26	25	22	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	300	320	310	300	300	300	300	310	300	300	310	300	300	290	300	300	310	300	300	310	310	300	300
	CNT	28	28	28	28	28	28	28	28	28	28	28	24	28	28	28	28	28	28	28	27	29	26	28	29
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT	2	2		1	1		2	3	2	2		1			1			1	1		1		1	
h'E	MED																								
	CNT	1	1																						
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

DECEMBER. 1957

TABLE 45

CLYDE, 8- FIN 1. (70.5N, 68.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	51	50	50	47	46	43	45	48	65	66	72	88	83	82	76	82	72	64	67	70	68	61	54
	CNT	25	26	24	26	24	26	26	25	29	27	27	28	24	23	24	26	24	28	26	25	28	28	25	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	300	300	300	310	320	300	300	300	290	290	290	280	280	280	290	290	290	300	290	290	280	290	300
	CNT	26	27	27	26	25	28	25	29	29	29	30	31	28	30	25	29	28	29	28	27	30	26	29	27
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED											180	180	180	180										
	CNT					1			1	2	2	13	18	12	9	1										
h'E	MED																								
	CNT												3												
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

DECEMBER, 1957

TABLE 46

LULEA, SWEDEN (65.6N, 22.1E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U		U	59	82	108	128	136	138	D	120	99	65	57	U	U	U	U	U
	CNT	58	58	55	62	67	61	58	52	27	27	28	27	27	27	26	25	23	22	19	56	45	55	56	58
	UQ	19	17	20	22	24	19	23	23												20	15	13	18	12
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	400	350	340	310	310	285	270	275	275	270	250	245	240	240	230	230	230	245	260	280	340	350	370	390
	CNT	19	20	26	25	26	24	24	25	27	26	28	27	29	28	29	29	25	25	23	20	19	21	23	18
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	240	240	250	260	250	270	260	290	290	280	280	280	280	290	290	290	290	U	270	270	250	240
	CNT	7	7	9	8	8	7	13	13	18	25	23	23	12	28	28	14	19	16	10	7	6	6	6	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED				U																				
	CNT		260		250	270					170	200	210	210	200	170				260		280			
			1		1	2					11	18	18	16	22	17				1		1			
h'E	MED																								
	CNT					110					110	120	140	135	135	150									
						1					1	2	4	3	8	3									
foEs	MED										G	G			G	G									
	CNT	35	31	31	32	31	26	29	19	16	15	24	20	20	25	23	22	30	31	31	34	39	35	33	39
		22	22	23	21	17	10	3	2	4			24	22			4	8	14	15	19	20	23	26	23

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

DECEMBER, 1957

TABLE 47

PARAMARIBO, SURINAM (5.8N, 55.2W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	141	D	150	136	108	88	75	70	64	73	104	138	140	134	131	131	126	124	123	124	125	124	127	135
	CNT	28	155	28	28	28	28	28	28	28	28	27	27	28	27	27	28	29	29	29	29	29	27	28	28
	UQ	168	170	170	154	123	105	92	78	70	78	118	150	144	140	140	139	135	131	131	131	132	131	143	155
	LQ	130	137	138	123	99	81	68	66	56	65	99	131	134	128	127	126	122	118	119	117	116	121	123	127
h'F2	MED												U	310	350	400	420	440	470	490	470	440	415		
	CNT												260	7	17	23	26	28	29	29	29	25	8		
	UQ												1												
	LQ																								
h'F	MED	300	275	255	240	220	225	240	250	250	260	260	250	240	240	230	245	250	250	250	250	250	285	315	320
	CNT	28	27	28	28	28	28	28	28	28	28	27	27	28	26	26	28	28	29	29	29	26	26	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	240	250	275	280	285	275	270	270	275	265	290	295	280	260	250	240	235	225	220	225	230	235	245	245
	CNT	16	12	19	20	27	26	25	26	26	28	27	26	28	27	27	28	29	29	29	29	28	25	27	22
	UQ																								
	LQ																								
foF1	MED														U							U			
	CNT														770	740	730	720	680	670	650	740			
															2	6	21	24	26	25	19	1			
foE	MED										U													U	
	CNT										140	220	310	370	400	440	450	460	450	420	380	330	240	140	
											14	27	26	28	27	25	25	23	25	27	26	23	12	5	
h'E	MED										U											U			
	CNT										105	105		100	100	100	100	100	100	100	100	100			
										10	3	5		23	25	24	24	23	21	23	16	13	3	4	
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS.

DECEMBER, 1957

TABLE 48

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	97	92	87	84	80	82	90	98	102	108	112	116	118	117	116	115	108	104	101	102	100	96	97	98
	CNT	25	25	26	22	21	23	25	25	26	22	24	21	21	23	23	23	25	27	23	24	27	30	29	28
	UQ																								
	LQ																								
h'F2	MED									550	515	495	485	475	480	470	460	450	450	430	E				
	CNT									8	13	20	25	23	23	24	24	24	13	2	400				
	UQ																				1				
	LQ																								
h'F	MED	380	335	360	370	405	290	260	245	245	240	250	235	245	250	250	245	245	255	285	330	395	420	420	400
	CNT	26	24	27	27	22	24	24	24	20	13	10	11	8	9	11	20	15	21	18	17	26	27	27	29
	UQ																								
	LQ																								
(M3000)F2	MED	230	240	230	220	215	220	240	225	215	215	225	230	230	230	230	235	235	235	230	230	220	215	220	220
	CNT	24	22	24	22	20	18	20	21	23	20	22	20	20	20	21	21	23	26	22	22	26	25	27	28
	UQ																								
	LQ																								
foF1	MED								670	670	690	680	690	670	660	640	630	600	570						
	CNT								5	12	12	11	17	13	15	14	18	16	7						
foE	MED						220	300	360	400						1		1							
	CNT						12	14	6	1						440	430	395	345	285					
																1	2	2	4	2					
h'E	MED						155	117	116	115	114	113	120	109	114	117	119	119	119	118					
	CNT						12	16	18	17	12	4	4	1	4	4	8	14	12	10					
foEs	MED	50	43	37	36	30	28	34	40	54	63	62	60	60	56	52	46	42	40	38	50	65	57	59	50
	CNT	19	21	20	21	23	24	24	24	24	18	18	13	10	11	12	13	21	24	23	21	18	21	22	22

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

DECEMBER, 1957

TABLE 49

MACQUARIE I. (54.4S, 159.0E)

TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	48	46	50	52	58	60	U 63	68	69	68	70	69	72	72	74	74	71	70	U 63	68	D 57	D 57	55
	CNT	17	15	17	15	18	20	18	16	17	16	14	16	19	18	17	22	22	19	16	13	11	12	11	12
	UQ	52	50	50	52	56	60	64	69	70	72	72	73	74	74	75	76	76	74	73	71	68	63	68	62
	LQ	42	41	42	48	49	53	58	58	60	65	66	68	68	70	70	72	70	66	64	58	55	55	48	44
h'F2	MED						500	590	600	640	630	610	630	605	600	550	520	500	460	530					
	CNT			1	1	4	14	17	17	17	15	12	15	18	17	17	22	19	13	5	1	1			
	UD																								
	LQ																								
h'F	MED	430	395	400	330	285	260	240	230	225	230	230	220	220	230	230	230	235	250	275	320	345	365	375	U 410
	CNT	17	15	17	16	20	19	20	18	18	16	17	16	19	18	17	21	20	20	14	11	10	12	11	12
	UQ																								
	LQ																								
(M3000)F2	MED	230	220	220	240	250	230	215	210	210	210	220	210	220	220	220	230	230	240	230	235	230	240	230	220
	CNT	14	14	17	14	18	18	17	14	16	13	14	14	18	18	17	19	18	15	14	11	7	7	7	10
	UQ	235	225	230	240	255	235	230	225	220	220	225	220	225	230	230	235	235	245	245	250	245	245	240	230
	LQ	210	210	215	220	225	210	200	205	205	205	215	205	210	205	215	220	220	215	220	215	225	225	210	210
foF1	MED					400	U 460	520	520	530	550	560	570	560	560	550	540	500	500						
	CNT			1	1	5	14	19	18	18	17	16	16	18	17	17	21	18	11	3					
foE	MED				205	260	320	360	390	400	400	400	410	400	400	400	385	360	330	265	220				
	CNT				12	17	20	21	18	18	15	17	15	19	17	17	20	21	19	14	5	1			
h'E	MED				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
	CNT				11	17	19	21	18	18	16	17	15	19	17	17	21	21	19	15	5	1			
foEs	MED	44	40	34	24		E		E	E	E	E	E	E	E	E	E	E	E						
	CNT	22	22	21	18	34 20	32 20	37 22	39 19	40 18	40 16	40 17	41 16	40 19	40 18	40 17	38 21	36 21	34 20	43 20	55 20	43 20	47 21	46 20	50 25

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS.

DECEMBER, 1957

TABLE 50

CAPE HALLET (72.3S, 170.3E)

TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	48	46	47	47	48	57	59	66	64	60	64	60	60	61	60	63	63	64	62	60	57	53	49
	CNT	27	24	22	21	21	17	10	21	16	21	19	21	23	25	24	28	28	26	29	24	23	28	24	23
	UQ																								
	LQ																								
h'F2	MED	U 590	540	U 625	670	750	710	580	555	540	560	570	580	625	620	625	610	570	555	525	505	490	480	495	530
	CNT	9	10	5	10	13	11	13	20	13	18	17	15	22	22	24	26	25	26	29	27	19	15	10	14
	UQ																								
	LQ																								
h'F	MED	300	300	275	270	255	250	240	240	230	240	230	220	215	210	220	225	235	240	250	255	265	280	290	300
	CNT	28	23	24	25	24	25	28	20	17	22	28	23	23	24	21	21	23	29	28	27	29	28	25	26
	UQ																								
	LQ																								
(M3000)F2	MED	225	225	225	220			210	220	220	225	220	210	210	215	210	215	215	220	225	220	230	235	230	225
	CNT	22	17	14	15	13	8	10	17	12	9	14	12	16	20	19	24	26	23	24	21	20	21	17	18
	UQ																								
	LQ																								
foF1	MED	340	350	370	390	410	430	460	480	490	500	500	500	500	510	510	500	490	460	450	430	400	370	360	340
	CNT	15	15	13	17	20	23	28	24	25	23	26	24	26	26	27	28	28	29	31	28	26	21	15	18
foE	MED	240	240	250	270	280	300	330	350	370	370	380	370	370	370	360	360	350	330	310	290	280	260	240	230
	CNT	24	22	21	16	17	7	14	13	8	16	21	14	16	18	14	22	22	23	27	24	28	27	25	21
h'E	MED	105	105	109	102	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	103	107	103	105
	CNT	18	23	23	24	26	28	29	29	28	24	24	25	26	24	22	25	25	24	25	24	24	25	20	19
foEs	MED															44		E 36							
	CNT	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	31	30	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1957

TABLE 51

ALERT, CANADA (82.5N, 62.3W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	58	56	65	52	58	56	62	58	67	78	78	73	78	73	86	78	68	61	68	58	58	60	63
	CNT	12	16	19	20	18	17	19	17	19	22	19	18	19	20	23	22	23	22	21	15	17	18	16	19
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	310	320	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	320	320	320	320	320
	CNT	18	21	20	20	20	20	18	19	17	19	18	19	23	19	21	18	20	21	23	18	21	16	17	19
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT					2	1	1	2	1	1	4	3	2											
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

NOVEMBER, 1957

TABLE 52

CLYDE, BAFFIN I. (70.5N, 68.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	58	56	48	46	46	47	48	56	67	76	78	82	88	86	78	86	80	72	79	78	67	72	60
	CNT	26	28	25	22	23	23	18	20	24	21	23	26	22	21	17	22	20	23	22	23	23	23	21	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	300	300	300	320	290	300	280	290	290	290	290	300	280	290	290	300	300	300	300	280	300	280	300
	CNT	27	29	26	21	22	25	22	26	27	27	26	27	25	26	24	27	26	26	26	25	27	27	27	26
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									U 170	180	190	200	200	200	180	E 15								
	CNT								1	9	18	17	18	19	22	18									
h'E	MED										1	3	2	2	2	2									
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

NOVEMBER, 1957

TABLE 53

PARAMARIBO, SURINAM (5.8N, 55.2W)

TIME 0+0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	170	171	170	161	118	97	84	66	64	75	112	145	153	148	144	142	142	139	134	132	133	138	142	153
	CNT	25	26	27	27	27	27	27	26	26	26	27	28	28	27	26	25	25	26	26	25	25	25	26	25
	UQ	170	180	180	175	147	110	90	78	82	92	122	151	160	153	148	148	146	140	139	138	142	140	148	163
	LQ	149	150	150	133	103	85	73	64	55	65	108	143	146	143	140	138	137	135	130	130	130	124	137	135
h'F2	MED											U			U			U				U			
	CNT											250			355	380	410	445	450	470	470	430			
	UQ											1			2	9	22	24	23	23	22	4			
	LQ																								
h'F	MED	300	260	250	225	220	220	225	240	260	255	260	250	240	225	230	230	230	235	240	250	250	290	310	320
	CNT	25	26	27	27	27	27	27	26	26	26	27	28	27	27	26	24	25	24	24	23	22	23	26	25
	UQ																								
	LQ																								
(M3000)F2	MED	250	270	270	280	280	285	280	275	275	280	290	295	295	275	260	245	245	235	230	230	235	240	250	240
	CNT	14	13	14	18	23	24	25	26	25	25	27	28	27	27	26	25	25	26	26	25	25	25	26	21
	UQ																								
	LQ																								
foFi	MED														U			U				U			
	CNT														850	840	820	780	740	730	700	690			
															1	9	20	24	23	23	20	2			
foE	MED										U														
	CNT									2	220	240	320	380	420	440	460	450	420	400	370	320	230		
											8	26	27	26	25	23	21	23	23	21	20	19	17		
h'E	MED																								
	CNT									2	7	145	100	100	100	105	110	105	105	100	100	100	125		
												8	17	20	26	24	23	24	24	21	20	15	6		
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS.

NOVEMBER, 1957

TABLE 54

BUENOS AIRES, ARGENTINA (34.5S, 58.5W)

TIME 60+0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	118	110	99	91	85	90	96	108	116	121	128	133	132	132	132	129	120	120	120	127	123	122	120	120
	CNT	27	28	27	27	27	26	24	26	27	29	28	28	27	28	29	29	29	28	26	24	26	27	26	26
	UQ																								
	LQ																								
h'F2	MED									390	485	470	465	465	460	450	450	430	U 400	400					
	CNT									2	5	17	27	26	27	29	29	23	3	2					
	UQ																								
	LQ																								
h'F	MED	350	325	300	290	350	280	250	240	235	230	230	240	240	235	250	245	250	260	290	350	380	385	370	360
	CNT	28	28	27	25	27	25	26	26	26	24	20	14	14	17	11	18	20	20	19	24	24	24	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	240	255	245	235	220	215	265	235	225	230	230	235	235	230	235	235	235	235	240	230	220	220	225	235
	CNT	24	27	27	27	26	24	21	23	24	28	26	28	25	24	25	29	29	23	20	20	25	24	24	22
	UQ																								
	LQ																								
foFI	MED									U	U	U	U	U		U		U							
	CNT									660	740	720	730	720	680	700	670	680							
										2	8	14	17	17	12	11	13	3							
foE	MED			E	E	E									U										
	CNT			1	1	4	210	290	340	380	400	420	430	430	420	420	400	360	290	230					
							15	19	17	11	6	4	2	1	1	4	4	8	5	2					
h'E	MED			E	E	E																			
	CNT			1	2	6	161	119	113	111	111	111	111	115	119	115	117	119	119	139					
							12	14	16	19	20	14	11	10	10	15	19	16	10	5					
foEs	MED	34	34	44	39	34	33	34	40	44	45	E 42	E 43	50	E 42	54	50	44	48	32	44	44	44	44	46
	CNT	20	24	21	23	22	27	26	26	26	29	27	28	27	28	29	29	29	29	26	23	18	19	16	16

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

NOVEMBER, 1957

TABLE 55

DECEPCION I. (63.0S, 60.7W)

TIME 60+0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED				U	94	96	96	94	100	98	94	96	90	87	90	85	89	81	84	86	U 90			
	CNT				97	16	24	24	28	26	21	24	24	24	28	25	25	29	25	20	10	5			
	UQ				2									19	19	17	10	8	25	20					
	LQ																								
h'F2	MED				U	420	410	440	460	460	450	440	440	465	495	460	480	410	400	365					
	CNT				420	9	16	15	20	16	15	14	15	18	16	11	11	8	7	4			1	1	
	UQ				1																				
	LQ																								
h'F	MED	320	305	310	320	290	E 265	230	220	220	E 220	E 220	210	E 220	E 210	E 220	220	220	230	245	E 270	E 290	300	305	315
	CNT	25	28	28	24	25	24	21	22	22	15	19	17	22	22	21	20	25	27	24	27	27	22	18	22
	UQ																								
	LQ																								
(M3000)F2	MED	248	260	248	250	245	248	245	240	250	252	250	260	250	260	260	265	270	275	280	280	275	260	260	245
	CNT	24	25	24	24	26	24	22	25	24	18	21	19	23	26	24	24	27	27	26	25	26	21	19	22
	UQ																								
	LQ																								
foFI	MED	999	999	990	960	790	450	470	510	540	590	610	610	620	620	610	620	600	810	900	900	910	920	920	990
	CNT	25	27	27	22	19	19	15	19	19	16	15	18	19	17	10	10	8	11	11	19	23	22	18	23
foE	MED	E	E	E	E					U		U	U		U		U	U	U	U		E	E	E	E
	CNT	18	18	20	15	210	250	290	325	345	380	375	365		380		370	320	345	270		4	11	12	14
						7	6	5	6	6	5	4	2		1		3	1	2	4					
h'E	MED	E	E	E	E	99	101	101	101	99	101	99	U 90		U 101		U 101	U 101	U 101	U 101	U 101	U	E	E	E
	CNT	18	19	21	16	7	7	5	5	7	6	5	2		1		3	2	3	4	1	4	11	11	15
foEs	MED	E	E	E	E				40		54											E	E	E	
	CNT	23	23	24	22	24	23	23	21	24	16	21	17	21	22	21	20	25	26	26	23	21	18	15	20

SWEEP 1.5 MC TO 18.0 MC IN 30 SECONDS.

NOVEMBER, 1957

TABLE 56

ALERT, CANADA (82.6N, 62.6W)

TIME 75+0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	56	56	56	55	58	60	66	66	68	70	80	81	82	82	76	76	70	70	64	67	63	64	60
	CNT	16	20	21	25	22	25	24	26	24	22	23	24	23	24	20	23	20	22	20	20	21	20	22	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	300	310	300	300	300	290	290	290	290	300	300	290	290	290	290	300	300	300	300	300	300	300	300
	CNT	24	24	25	24	25	26	26	25	25	27	24	26	25	25	25	24	24	25	24	24	24	22	23	22
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foFI	MED																								
	CNT																								
foE	MED							U									U								
	CNT			1	1	1	3	180	180	190	190	200	200	190	190	190	180	4	2						
								7	12	14	15	17	16	17	15	15	9								
h'E	MED									U		U		U	U										
	CNT							1	2	130	4	150	3	140	140	3	2								
										5		7		7	6										
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

OCTOBER, 1957

TABLE 57

CLYDE, BAFFIN I. (70.5N, 68.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	54	55	50	48	52	58	68	80	78	74	80	78	82	81	87	84	79	70	72	70	71	68	62
	CNT	31	30	31	29	30	29	29	29	28	26	27	28	28	28	26	27	28	29	29	29	29	27	27	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT											4	3	2	2	2									
	UQ																								
	LQ																								
h'F	MED	290	290	300	300	300	300	300	270	270	270	280	270	270	260	270	280	280	290	290	290	290	290	290	300
	CNT	31	30	28	29	30	30	29	28	28	27	24	25	27	27	24	28	28	29	29	30	28	29	29	30
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED											U	U												
	CNT									1	2	400 5	440 5	3	4	2									
foE	MED							U											U						
	CNT							180 9	200 19	220 21	250 22	270 20	280 23	270 23	260 23	230 23	220 22	200 16	180 5						
h'E	MED								U	U								U							
	CNT								140 7	110 9	110 12	100 11	105 21	105 19	110 19	110 13	120 10	120 5							
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

OCTOBER, 1957

TABLE 58

POITIERS, FRANCE (46.6N, 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	74	72	68	66	64	58	67	103	132	130	134	135	130	132	132	131	U 127	125	D 90	D 86	D 84	D 75	U 80	78
	CNT	30	28	29	30	28	27	27	26	28	28	28	28	28	28	28	28	28	28	29	30	29	30	29	29
	UQ																								
	LQ																								
h'F2	MED						U			U	U							U							
	CNT						370 1			260 4	305 2	300 5	285 9	300 7	328 10	298 8	300 9	270 1							
	UQ																								
	LQ																								
h'F	MED	E	E	E	E	E	E																		
	CNT	315 30	310 29	315 29	320 29	285 29	260 26	260 27	245 27	230 27	230 28	230 28	230 28	230 28	230 28	235 28	250 27	250 28	250 28	250 29	250 30	250 29	270 30	270 29	288 29
	UQ																								
	LQ																								
(M3000)F2	MED	235	232	245	248	252	250	270	U 280	295	U 295	U 288	U 278	U 270	U 265	U 260	U 260					U 250	U 248	U 230	235
	CNT	11	12	14	12	12	18	17	3	5	3	2	4	3	4	3	2					1	2	3	7
	UQ																								
	LQ																								
foF1	MED						U			U	U	U	U	U	U	U	U								
	CNT						190 1			610 1	630 2	680 3	600 3	660 7	750 9	630 5	600 2								
foE	MED					E														E					
	CNT					1	175 11	228 26		300 26	335 27	360 24	370 22	380 23	370 24	360 24	328 24	260 25	190 15	24					
h'E	MED					E	E												E	E					
	CNT					1	12	115 23		110 23	108 23	100 21	105 18	100 19	100 22	105 24	110 22	120 24	19	24					
foEs	MED			E	E	E	E																		
	CNT	22 30	22 29	29	30	29	27	27	25 27	29 27	36 28	38 28	38 28	40 28	35 28	31 28	33 28	30 28	26 28	26 30	25 30	22 30	20 30	20 30	22 30

SWEEP 1.6 MC TO 17.0 MC IN 1 MINUTE.

OCTOBER, 1957

TABLE 59

CASABLANCA, MOROCCO (33.6N, 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	90	86	86	76	72	68	95	124	132	137	136	134	136	133	131	130	127	U 121	U 108	U 107	D 95	93	90
	CNT	18	18	23	23	22	22	22	25	24	26	26	24	23	24	23	26	25	25	23	22	24	23	20	20
	UQ																								
	LQ																								
h'F2	MED												U				U		U						
	CNT								248 22	230 15	235 15	245 5	230 1	360 5	365 3	370 5	305 1		252 2	260 16					
	UQ																								
	LQ																								
h'F	MED	E	E	E	E	E	E	E						E	E		E				E	E	E	E	E
	CNT	300 28	295 24	285 28	285 28	250 26	250 25	255 25	250 25	235 27	230 27	230 27	230 27	245 25	250 25	250 25	250 26	250 25	255 27	262 28	265 28	285 28	285 28	290 28	290 28
	UQ																								
	LQ																								
(M3000)F2	MED	245	250	260	265	275	255	265	310	305	290	280	265	250	250	250	245	250	255	260	260	260	U 265	260	255
	CNT	9	11	18	20	18	22	21	23	23	17	18	17	20	15	20	24	24	24	16	13	15	10	9	10
	UQ																								
	LQ																								
foF1	MED									U	U	U		U	U		U								
	CNT									400 2	430 3	450 1		680 2	660 2	750 5	620 1								
foE	MED							E												E					
	CNT							2	210 12	290 26	345 25	370 21	380 12	380 11	390 11	400 12	370 17	320 22	265 20	4					
h'E	MED							E												E					
	CNT							2	125 11	110 26	105 26	105 24	105 23	105 19	110 20	105 19	110 22	112 22	120 19	4					
foEs	MED	E	E	E	E	E	E	E	E													E			
	CNT	28	23	27	28	26	23	25	21	26	36 27	40 27	43 26	41 23	40 25	35 24	38 26	38 25	35 27	32 24	31 26	26	20 27	21 28	E 26

SWEEP 1.6 MC TO 17.0 IN 1 MINUTE.

OCTOBER, 1957

TABLE 60

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 175	U 168	U 110	D 90	90	70	89	U 118	U 154	155	160	D 165	D 162	D 160	U 154								U 174	U 170
	CNT	2	2	3	5	8	17	18	12	8	11	12	9	8	7	2								1	1
	UQ																								
	LQ																								
h'F2	MED												U	U	U	U	U	U							
	CNT												428 4	420 5	415 3	455 5	455 2	460 1							
	UQ																								
	LQ																								
h'F	MED	250 30	230 30	218 28	220 27	220 25	220 24	245 25	230 27	220 27	210 27	205 26	200 19	200 23	200 19	210 25	220 21	230 25	260 31	325 29	E 425 19	380 16	350 22	312 28	280 29
	UQ																								
	LQ																								
(M3000)F2	MED			U	U	U			U	U															
	CNT			275 1	288 2	295 6	310 9	295 13	310 7	300 6	285 7	260 5	242 4	222 2											
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED			E	E	E	E	U												U	E	E			
	CNT			1	1	2	5	162 11	275 27	350 23	395 21	420 26	425 17	430 21	420 16	400 24	370 14	330 17	260 20	172 4	1	1			
h'E	MED			E	E	E	E	E													E	E			
	CNT			1	1	2	5	1	110 23	105 18	105 25	100 23	100 20	100 20	100 23	100 23	100 22	105 19	115 15		1	1			
foEs	MED	E	E	E	E	E																			E
	CNT	27	28	28	24	25	21 25	35 17	48 27	50 25	48 22	47 27	20	22	23	27	36 26	48 26	45 30	48 22	46 13	28 14	30 19	31 22	25

SWEEP 1.25 MC TO 20.0 MC IM 10 MINUTES.

OCTOBER, 1957

TABLE 61

OJIBOUTI, FRENCH SOMALILAND (11.6N, 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	100	96	90	86	86	82	92	125	140	147	145	140	138	136	138	134	128	122	108	96	88	96	100	100
	CNT	18	22	22	26	24	25	25	25	29	27	28	30	29	29	27	23	25	23	28	29	17	19	17	17
	UQ		U	U	U													U	U	U	U	U	U	U	U
	LQ																								
h'F2	MED										U	U	U				U	U	U	U					
	CNT										430	470	450	570	580	590	540	475	520	735					
	UQ										1	1	3	5	7	5	2	2	1	1					
	LQ																								
h'F	MED	265	260	260	255	250	240	270	260	250	240	235	238	230	238	240	240	255	272	335	462	430	375	312	290
	CNT	31	30	29	31	28	27	26	27	28	26	17	18	15	12	18	22	25	28	29	26	13	19	20	22
	UQ																								
	LQ																								
(M3000)F2	MED	U	U							U	U	U	U							U	U		U	U	U
	CNT	270	265	265	268	280	285	278	262	265	240	218	210	205	205	205	205	215	222	205	200	230	225	230	250
	UQ	9	15	16	18	21	23	20	15	18	12	16	23	25	27	25	19	17	14	20	29	9	11	5	11
	LQ																								
foF1	MED												U	U	U	U	U	U							
	CNT												800	850	820	840	860	770							
	UQ												2	3	6	6	2	2							
	LQ																								
foE	MED							E	U	U		U	U	E	E			U	E						
	CNT							22	290	355	398	425	440	440	435	420	395	350	270	22					
	UQ								21	26	20	13	14	13	16	21	18	23	17						
	LQ																								
h'E	MED							E			U	U	U	E	E	U	E			E					
	CNT							22	120	120	120	115	120		118	115	120	120	125	22					
	UQ								16	9	5	3	2		2	2	7	8	11	25					
	LQ																								
foEs	MED																				E	E			
	CNT	25	25	24	24	30	40	41	46	52	64	96	96	95	97	97	93	90	56	36	30	29	29	25	34
	UQ	29	28	28	29	27	25	28	28	29	29	27	27	29	29	29	28	30	30	26	30	29	29	30	28

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

OCTOBER, 1957

TABLE 62

TANANARIVE, MADAGASCAR (18.8S, 47.5E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	86	82	72	70	61	64	95		66	91													U	U
	CNT	26	23	25	28	27	30	19		1	1													93	94	94
	UQ				U						U													1	9	20
	LQ																								
h'F2	MED														U		U	U							
	CNT														350		410	390							
	UQ														1		10	3							
	LQ																								
h'F	MED		E																						
	CNT	242	228	250	255	250	285	245	235	225	215		U 200				230	U 238	250	270	270	260	250	250	245
	UQ	25	25	26	27	26	30	30	23	7	3		1				8	4	27	27	27	25	29	28	28
	LQ																								
(M3000)F2	MED			U	U																			U	
	CNT	275	280	250	270	265	265	305																268	280
	UQ	17	15	15	15	22	21	17																4	12
	LQ																								
foF1	MED																								
	CNT																								
	UQ																								
	LQ																								
foE	MED	E		E	E	E	E		U								U								
	CNT	1		6	10	17	25	245	310								392	340	265					1	
	UQ							26	6								2	19	22						
	LQ																								
h'E	MED	E		E	E	E	E						U	U	U									E	
	CNT	1		6	10	17	26	110	105	105	100	100	100	100	100	100	100	110	115					1	
	UQ							25	22	16	13	8	4	3	4	7	18	25	19						
	LQ																								
foEs	MED									U															
	CNT	18	20	29	17	17				39							47	40	32	30	31	31	29	27	28
	UQ	29	30	29	30	30	30	30	12	1						4	12	22	30	22	14	13	13	24	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

OCTOBER, 1957

TABLE 63

OECEPCION I. (63.0S, 60.7W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	90	83	78	78	88	91	101	110	124	135	124	124	118	116	108	102	99	98	96	95	94	92	90
	CNT	31	30	29	31	29	31	29	31	30	28	30	30	30	28	28	30	29	30	27	28	29	30	30	30
	UQ																								
	LQ																								
h'F2	MED				U	U	U	U	U	U	U	U	U	U	U	U	U								
	CNT				300	385	340	380	360	420	355	385	300	365	320	310									
	UQ				1	2	4	3	7	3	4	4	5	4	3	1									
	LQ																								
h'F	MED	E	E	E																					
	CNT	240	265	280	270	250	200	190	180	180	180	180	180	180	180	180	180	180	190	200	200	220	220	E 240	E 250
	UQ	31	30	29	30	29	30	29	31	30	28	30	30	30	25	28	30	29	30	28	30	29	30	30	31
	LQ																								
(M3000)F2	MED	300	297	290	290	290	305	315	318	325	330	325	335	332	330	345	338	345	350	350	340	330	320	310	305
	CNT	30	30	28	29	28	31	25	28	25	24	27	28	28	27	26	26	25	22	19	22	27	26	28	30
	UQ																								
	LQ																								
foF1	MED						U	U	U	U			U	U	U										
	CNT						500	410	500	550	680	630	600	660	640										
	UQ						1	1	2	4	5	5	3	2	2										
	LQ																								
foE	MED	E	E	E	E	E	U	U	U	U	U	U	U	U	U	U	U	U	280	U	U	U	E	E	U
	CNT						190	250	300	320	370	360	340	360	370	340	340	320		240	U		7	6	2
	UQ	6	9	14	15	8	9	8	4	6	7	3	4	2	1	2	3	2	3	4	2	2			
h'E	MED	E	E	E	E	E	91	101	99	99	99	100	95	91	96	95	99	99	99	101	U	U	E	E	E
	CNT	6	9	14	14	7	11	11	7	12	9	4	6	3	2	2	3	3	4	5	2	3	7	6	5
foEs	MED	E	E	E																		E	E	E	
	CNT	31	31	31	30	29	29	29	30	30	28	29	29	30	28	28	29	29	29	29	30	29	28	29	31

SWEEP 1.5 MC TO 18.0 MC IN 30 SECONDS.

OCTOBER, 1957

TABLE 64

POITIERS, FRANCE (46.6N, 0.3E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U			U								U	U	U	U					U			
	CNT	70	69	64	60	57	52	65	86	90	100	109	108	110	112	110	110	107	86	86	74	72	70	70	70
	UQ	28	27	27	28	28	28	29	27	26	29	28	28	29	26	29	30	29	29	27	27	29	30	30	29
	LQ																								
h'F2	MED							U												U					
	CNT							520	452	365	278	272	365	355	345	335	325	342	315	280					
	UQ							4	6	7	20	18	18	23	20	25	19	12	7	1					
	LQ																								
h'F	MED	E	E	E	E	E																			
	CNT	308	305	300	300	300	268	250	240	240	230	230	240	240	235	240	245	250	250	250	250	250	E 255	E 265	E 280
	UQ	28	27	26	25	25	26	29	28	28	27	25	26	25	25	27	29	29	28	28	28	29	30	29	27
	LQ																								
(M3000)F2	MED														U	U	U		U	U	U	U			U
	CNT	250	260	260	265	260	275	295	282	290	288	265	280	240	260	260	260	260	270	280	252	255	260	250	245
	UQ	7	8	13	13	11	16	19	8	9	10	7	6	5	3	6	4	7	3	1	2	3	5	5	4
	LQ																								
foF1	MED							U	U																
	CNT							330	410	480	520	520	560	570	640	580	560	500	420						
	UQ							3	4	6	9	10	14	17	16	21	16	7	4						
	LQ																								
foE	MED						U									U					E	U			
	CNT						170	210	480	330	362	370	380	395	385	370	365	325	270	190		230			
	UQ						1	29	28	28	28	27	27	26	22	25	28	28	27	15	28	1			
	LQ																								
h'E	MED						E									E	E			E	E	E			
	CNT						1	130	110	100	100	100	100	100	100	100	100	105	110	19	29	1			
	UQ							21	27	28	29	29	28	28	22	24	26	27	25	15					
	LQ																								
foEs	MED			E	E																				
	CNT	23	22	29	29	20	19	23	30	36	36	41	41	40	36			32	29	26	30	26	24	21	20
	UQ	29	29	29	29	29	29	29	29	29	29	29	29	28	25	27	28	30	30	30	30	30	30	30	30

SWEEP 1.6 MC TO 17.0 MC IN 1 MINUTE.

SEPTEMBER, 1957

TABLE 65

CASABLANCA, MOROCCO (33.6N, 7.6W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	84	80	80	74	70	63	68	82	99	101	92	105	110	119	119	116	118	118	110	113	90	87	84	86
	CNT	15	14	15	15	15	14	14	12	11	11	12	12	14	13	14	14	15	14	15	15	15	15	15	15
	UQ																								
	LQ																								
h'F2	MED								U	250	252	320	350	345	355	350	350	330	300	275					
	CNT								505	8	10	7	7	7	10	11	9	9	8	5					
	UQ								3																
	LQ																								
h'F	MED	E	E	E	E	E	E		E				E	E	E	E						E	E	E	E
	CNT	300	300	300	290	280	278	285	240	240	230	230	230	250	250	255	240	245	250	270	250	250	270	290	300
	UQ	13	15	15	15	14	14	14	13	13	10	9	2	1	3	2	6	10	12	13	15	15	15	14	14
	LQ																								
(M3000)F2	MED	265	260	268	270	275	262	290	322	315	322	285	280	272	262	270	270	270	280	285	300	292	255	258	262
	CNT	13	13	12	14	11	12	13	10	11	12	13	13	12	10	12	12	11	11	12	9	8	9	10	12
	UQ																								
	LQ																								
foF1	MED								U	U	U	U	U		U	U	U	U							
	CNT								340	400	530	470	580		630	600	620	530							
									2	2	3	1	1		3	4	4	1							
foE	MED							U					U								U				
	CNT							150	240	305	345	380	395				370	350	305	230	180				
								3	13	12	10	7	2				8	10	12	11	1				
h'E	MED							E													U				
	CNT							3	115	112	110	105	108	105	108	105	105	110	108	120	125				
									13	12	12	13	12	11	8	11	13	15	12	10	1				
foEs	MED		E				E																		
	CNT	22	15	21	19	19	14	14	14	34	38	40	44	46	43				35	30	29	20	24	22	31
						15				13	13	14	13	11	8	11	13	15	14	15	15	15	15	15	15

SWEEP 1.6 MC TO 17.0 IN 1 MINUTE.

SEPTEMBER, 1957

TABLE 66

DELHI, INDIA (28.6N, 77.2E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	85	76	68	63	62	60	80	101	118	120	134	142	145	150	148	148	145	142	137	130	111	98	95	90
	CNT	29	26	20	18	26	30	29	27	26	26	28	28	23	27	27	28	29	29	29	28	25	21	27	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	260	265	260	280	295	310	300	280	260	260	260	280	255	260	260	265	280	270	260	260	260	260
	CNT	20	19	16	16	24	25	26	23	25	24	25	21	16	16	14	18	22	18	17	11	12	13	16	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

SEPTEMBER, 1957

TABLE 67

AHMEDABAD, INDIA (23.0N, 72.6E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	113	108	93	71	65	62	74	108	121	122	132	147	152	162	162	170	173	170	158	148	144	142	132	117
	CNT	25	25	25	24	26	24	22	22	24	22	20	16	12	12	13	13	13	14	16	15	14	18	21	21
	UQ																								
	LQ																								
h'F2	MED									250	250	325	380	400	400	390	380	330	285	270					
	CNT									9	23	22	21	24	26	26	26	24	24	25					
	UQ																								
	LQ																								
h'F	MED	280	270	250	240	250	270	275	250	240	230	220	230	225	U	245	250	250	255	270	280	285	270	275	280
	CNT	28	28	28	26	27	24	27	25	21	17	14	6	6	4	13	17	21	18	25	26	27	30	30	29
	UQ																								
	LQ																								
(M3000)F2	MED	260	275	300	275	260	270	290	305	305	275	250	245	245	245	250	250	255	260	265	260	260	260	260	265
	CNT	21	24	21	21	24	23	21	22	23	21	19	17	14	13	13	15	13	15	16	16	16	15	21	21
	UQ																								
	LQ																								
foF1	MED									U	U														
	CNT									510	520	550	570	660	620	640	640	600	510						
										3	5	13	6	6	6	11	10	11	9						
foE	MED							U													U				
	CNT							160	270	340	370	400	420	430	430	420	400	360	290	200					
								2	21	15	10	7	6	5	7	11	14	18	22	4					
h'E	MED							U					U		U	U				U					
	CNT							115	110	107	105	105	105		105	105	105	110	112	120					
								2	17	22	16	6	2		1	2	8	16	17	2					
foEs	MED			E	E	E	E																		
	CNT	12	15	28	27	27	26	27	26	34	40	40	42	43	43	42	40	36	32	26	22	16	17	14	13
		28	28	28						24	24	25	23	23	23	25	26	25	26	26	28	27	30	30	29

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

SEPTEMBER, 1957

TABLE 68

CALCUTTA, INDIA (23.0N, 88.6E)

TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D									D	D	D	D	D	D	D	D	D	D	D	D			
	CNT	130	125	105	76	51	54	82	115	122	23	22	22	20	20	20	20	20	22	23	26	25	130	125	125
	UQ	24	23	21	24	26	24	25	22	25													25	27	27
	LQ																								
h'F2	MED										U														
	CNT									1	285	320	400	410	410	410	400	360							
	UQ										6	10	20	18	20	19	18	19	4						
	LQ																								
h'F	MED	260	255	250	240	250	250	260	250	240	250	250	245	235	230	240	250	250	250	280	300	270	260	260	260
	CNT	26	26	26	26	26	25	25	24	25	19	15	14	14	15	14	18	18	22	25	27	27	27	27	27
	UQ																								
	LQ																								
(M3000)F2	MED	U																				U	U	U	
	CNT	350	370	360	350	350	340	350	370	350	330									3	3	350	360	360	340
	UQ	9	11	16	17	16	15	24	21	19	11	2										5	8	7	10
	LQ																								
foF1	MED																		U						
	CNT										800	800	820	850	800	800	750	750	740						
										1	5	12	20	18	19	20	18	19	5						
foE	MED													U	U										
	CNT							200	300	350	390	400	420	420	400	410	390	350	300	210					
								15	23	23	15	6	6	3	4	11	16	20	16	7					
h'E	MED							120	110	110	110	110	100	100	100	100	100	100	110	115					
	CNT							14	22	23	18	14	13	8	10	16	16	20	16	6					
foEs	MED	E	E	E	E	E	E			25	40			35					32	35	20	E	E	E	E
	CNT	27	27	27	27	26	26	25	24	25	23	18	12	12	13	18	18	20	22	25	27	27	27	27	27

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS.

SEPTEMBER, 1957

TABLE 6

TAMANRASSET, FRENCH W. AFRICA (22.8N, 5.5E)

TIME 0.6

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED																								
	CNT	140	135	110	65	60	65	90	103	110	122	134	140	147	150	150	150	144	140	140	140	140	142	140	140
	UQ	7	10	12	16	18	21	18	22	24	23	26	27	29	22	25	24	22	21	17	9	10	8	11	7
	LQ																								
h'F2	MED						U	U	U	U	U	U	U					U							
	CNT						610	292	302	430	270	380	375	405	410	380	375	335	270						
	UQ						1	2	4	3	3	3	7	16	20	19	16	8	1						
	LQ																								
h'F	MED											E	E	E	E										
	CNT	250	250	240	232	260	270	250	230	230	220	220	255	240	225	225	240	250	260	292	315	290	288	280	260
	UQ	24	27	25	27	25	27	27	24	26	22	17	16	16	16	22	23	24	27	26	25	26	28	26	28
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT						U	U	U	U	U	U	U	U	U	U	U	U							
	UQ						250	350	430	440	520	740	730	770	750	700	780	690							
	LQ						1	1	3	2	2	2	4	5	9	9	6	2							
foE	MED					E	E				D	O	D	D	D	O	D								
	CNT					2	21	240	305	340	330	330	330	330	330	330	330	310	240	E	E				
	UQ							22	18	7	7	8	8	6	7	6	9	16	20	21	3				
	LQ																								
h'E	MED					E	E													E	E				
	CNT					2	21	110	105	105	105	108	105	105	105	105	100	105	112	20	21				
	UQ							22	25	23	21	18	13	12	16	20	22	22	20		3				
	LQ																								
foEs	MED	E	E	E	E																E	E	E	E	E
	CNT	28	29	27	30	17	17	33	33	44	45	46	45	44			31	32	33	24	29	28	29	28	29
	UQ					27	27	26	24	25	25	20	17	17	18	22	25	25	26	28					
	LQ																								

SWEEP 1.6 MC TO 17.0 MC IN 1 MINUTE.

SEPTEMBER, 1957

TABLE 7

BOMBAY, INDIA (19.0N, 72.8E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED																					U			
	CNT							74	92	113	112	128	132	132	134	138	138	135	130	122	114	109	103	100	
	UQ							26	25	24	26	17	20	17	9	17	14	20	16	14	18	7	12	18	
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED																					U			
	CNT							325	310	290	290	275	270	255	230	230	245	245	260	260	280	290	300	305	
	UQ							26	25	24	26	16	17	18	9	15	12	21	16	14	18	7	12	18	
	LQ																								
foF1	MED																								
	CNT																								
	UQ																								
	LQ																								
foE	MED																								
	CNT																								
	UQ																								
	LQ																								
h'E	MED																								
	CNT																								
	UQ																								
	LQ																								
foEs	MED																								
	CNT																								
	UQ																								
	LQ																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

SEPTEMBER, 1957

TABLE 71

DAKAR, FRENCH W. AFRICA (14.8N, 17.4W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED		U	U	U								U	U	U	D		D				D		U	
	CNT		82	64	56	57	58	68	96	110	140	150	136	150	138	142		165				110		86	
	UQ		2	3	7	15	22	22	16	14	7	9	2	4	4	2		1				1		1	
	LQ																								
h'F2	MED								U	U	U	U	U	U	U	U	U	U							
	CNT								250	245	250	310	365	368	395	375	375	360							
	UQ								1	1	1	1	6	2	6	5	3	3							
	LQ																								
h'F	MED																				E	E			
	CNT	270	258	220	210	222	220	240	230	220	210	200	200	200	210	218	215	220	240	275	362	375	368	335	302
	UQ	26	26	24	24	24	24	28	21	21	9	12	13	12	9	12	10	15	19	20	20	25	22	23	25
	LQ																								
(M3000)F2	MED		U	U								U	U	U	U	U								U	
	CNT		308	270	265	290	295	305	325	315	300	275	260	240	265	285								250	
	UQ		2	2	5	13	21	18	14	11	5	2	1	1	3	1								1	
	LQ																								
foF1	MED											U	U		U										
	CNT											540	570		690										
	UQ											1	1		1										
	LQ																								
foE	MED						E	U	280	355	380	410	430	435	430	410	385	348	278	U	E				
	CNT						1	180	19	13	7	11	10	13	8	12	9	14	16	190	2				
	UQ							11												3					
	LQ																								
h'E	MED						E														E				
	CNT						1		110	105	100	105	102	100	102	105	105	105	105		2				
	UQ								15	13	7	7	10	10	10	9	11	14	13						
	LQ																								
foEs	MED	E	E	E	E	E	E																E	E	
	CNT	24	23	23	23	15	25	27	30	47	39	46	45	48	42	45	44	41	44	29	47	45	28	24	19
	UQ							27	22	22	16	16	16	17	13	16	15	18	19	19	15	17	18		
	LQ																								

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

SEPTEMBER, 1957

TABLE 72

MADRAS, INDIA (13.1N, 80.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U													U	U		U	U			U
	CNT	131	125	87	84	74	62	85	122	132	135	130	130	125	131	131	131	134	132		117	114			128
	UQ	5	5	7	8	14	18	17	22	21	21	20	22	21	18	21	16	10	8	3	7	5	2	2	5
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED			U	U														U		U				
	CNT			310	305	305	300	305	280	265	235	225	220	215	215	220	210	225	220		230				
	UQ	4	2	6	6	12	18	16	20	22	20	19	23	21	17	19	16	10	7	4	7	3	2	1	4
	LQ																								
foF1	MED																								
	CNT																								
	UQ																								
	LQ																								
foE	MED																								
	CNT																								
	UQ																								
	LQ																								
h'E	MED																								
	CNT																								
	UQ																								
	LQ																								
foEs	MED																								
	CNT																								
	UQ																								
	LQ																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

SEPTEMBER, 1957

TABLE 73

DJIBOUTI. FRENCH SOMALILAND (11.6N. 43.2E)

TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 100	U 95	U 78	U 79	74	69	74	105	126	140	U 145	145	140	138	138	138	134	U 130	129	U 100	U 100	U 100	U 100	U 104
	CNT	17	20	25	28	24	27	27	29	29	29	30	30	30	30	30	30	29	30	29	27	19	15	13	17
	UD																								
	LD																								
h' F2	MED										U 320	U 332	U 400	425	405	U 480	U 435	U 455	U 520						
	CNT										1	4	3	5	6	4	2	2	1						
	UD																								
	LQ																								
h' F	MED	260	252	240	245	240	225	230	245	238	230	230	230	U 230	230	230	235	245	260	295	372	370	348	318	290
	CNT	29	30	27	30	27	28	29	30	28	28	21	16	17	19	18	21	23	28	29	28	18	22	26	29
	UD																								
	LD																								
(M3000)F2	MED	280	275	U 275	285	295	315	295	305	282	260	U 240	U 230	215	215	215	215	222	U 220	U 210	U 208	U 210	U 215	U 232	U 245
	CNT	12	9	11	15	15	19	23	23	24	26	21	20	25	26	25	20	18	11	12	16	9	6	4	3
	UD																								
	LD																								
fo F1	MED												U 850	U 780	U 690	U 780	U 680	U 760							
	CNT												1	2	1	2	1	1							
fo E	MED							135	U 285	350	385	U 415	430	U 438	435	U 420	U 395	U 360	U 300	160					
	CNT							21	26	29	26	16	9	12	17	13	21	19	16	20					
h' E	MED							E		110	110	U 108	U 120	U 115	U 115	U 110	U 118	U 118	U 120	E					
	CNT							22	115	18	11	4	3	3	4	2	2	4	3	14					
fo Es	MED	39	23	23	23	23	34	28	42	41	60	94	96	95	94	96	90	92	90	45	22	E	E	28	38
	CNT	29	29	28	30	27	28	28	30	30	29	30	23	28	28	28	30	27	30	29	29	28	28	29	30

SWEEP 1.25 MC TO 20.0 MC. IN 10 MINUTES.

SEPTEMBER. 1957

TABLE 74

TIRUCHY. INDIA (10.8N. 78.7E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	114	102	89	84	70	55	85	117	122	124	121	121	118	120	120	120	118	118	116	110	U 109	U 105	U 115	D 115
	CNT	10	12	12	16	14	17	27	29	29	24	27	24	26	27	27	26	26	28	30	14	9	9	9	9
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 280	280	280	295	300	300	290	270	245	230	230	220	210	210	210	220	220	220	220	210	U 270	260	U 260	U 250
	CNT	8	12	11	16	14	17	27	29	28	23	26	24	26	24	20	26	20	22	26	12	8	12	8	8
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

SEPTEMBER. 1957

TABLE 75

KODAIKANAL. INDIA (10.2N. 77.5E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	114	100	89	86	71	52	76	112	126	130	127	120	120	120	120	122	124	122	116	102	110	112	113	122
	CNT	17	19	19	17	21	20	25	28	28	29	27	28	28	28	30	30	29	30	30	22	10	11	11	11
	UQ																								
	LQ																								
h' F2	MED												1		2	3		1							
	CNT																								
	UD																								
	LQ																								
h' F	MED	250	250	240	235	225	220	265	240	230	220	215	215	215	220	220	225	240	260	310	400	360	300	290	280
	CNT	27	28	28	28	28	28	27	27	27	26	25	26	26	24	26	28	27	27	27	27	19	23	24	25
	UD																								
	LQ																								
(M3000)F2	MED	290	295	300	310	325	330	300	290	250	225	220	215	210	210	210	210	210	210	205	205	220	240	255	275
	CNT	17	19	19	17	21	20	24	27	27	28	26	27	27	27	28	28	27	28	28	21	10	11	11	11
	UD																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED							200	300																
	CNT							18	12	1		1		1	2		2	1	2						
h' E	MED							120	110									110							
	CNT							19	17	4	2	2			1	2	3	6	4						
fo Es	MED	65							86	110	114	123	124	124	122	122	120	102	88	48				42	48
	CNT	6	4	3		2		23	28	28	29	27	28	28	27	30	30	28	27	5	2	1	4	7	8

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

SEPTEMBER. 1957

TABLE 76

TRIVANDRUM. INDIA (8.5N. 77.0E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	D 110	D 102	D 98	D 90	75	52	78	113	130	134	127	122	120	124	121	124	D 123	D 117	D 108	D 108	D 109	D 110	D 110	D 112
	CNT	11	10	12	12	14	15	24	29	30	29	30	30	30	30	27	28	30	29	27	14	9	11	11	12
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UD																								
	LQ																								
(M3000)F2	MED			U 290		320	325	310	300	260	240	230	225	220	210	210	215	U 200	U 225						
	CNT	4	4	5	4	10	14	19	25	25	25	28	28	28	28	24	21	11	7	2	2	4		1	3
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

SEPTEMBER. 1957

TABLE 77

TANANARIVE, MADAGASCAR (18.85, 47.5E) TIME 45.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED								U	U									U		U	U		U	
	CNT	77	70	53	55	45	44	75	92	90									85		90	79	92	88	88
	UQ	26	24	22	25	27	28	23	6	3									2		4	4	11	11	23
	LQ																								
h'F2	MED														U	U	U								
	CNT														350	350	350								
	UQ														1	3	3								
	LQ																								
h'F	MED	230	230	225	230	248	252	240	230	225	220	U	U	U	215	U	U	U	225	230	242	245	235	228	230	240	230
	CNT	28	26	28	26	26	28	29	29	19	12	210	200	1	200	1	210	4	15	24	26	28	27	25	28	28	27
	UQ											5	2		1		4										
	LQ																										
(M3000)F2	MED	U	U						U	U									U			U	U	U	
	CNT	300	290	285	290	285	290	318	328	315									315			312	310	295	282	302
	UQ	22	19	20	25	25	27	18	6	3									1			2	3	4	8	14
	LQ																										
foF1	MED														U										
	CNT														770										
	UQ														1										
	LQ																								
foE	MED	E	E	E	E	E	E				U						U				U	E		E	E
	CNT	8	9	12	16	12	18	158	280		390						350	330	20	140	1	1	6	7	9
	UQ							22	23		1						3	20	24	1					
	LQ																								
h'E	MED	E	E	E	E	E	E														E		E	E	E
	CNT	8	9	12	16	12	18	110	110	105	105	102	100	100	102	105	105	110	115		1		5	5	9
	UQ							9	27	18	15	8	3	1	2	6	18	26	20						
	LQ																								
foEs	MED	E	E							U	U														
	CNT	29	29	29	29	17	29	28	28	31	44						43	34	25	30	28	20	14	E	E
	UQ					29	29	27	28	3	2						7	25	28	14	15	8		25	29
	LQ																								

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. SEPTEMBER, 1957

TABLE 78

OECEPCION (-, 63.05, 60.7W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	50	48	47	40	49	57	72	86	99	119	120	123	120	116	106	98	98	92	80	70	62	58	58
	CNT	27	27	25	25	28	27	28	29	27	28	27	29	30	30	30	28	29	28	30	30	28	28	27	29
	UQ																								
	LQ																								
h'F2	MED									U	U	U	U	U	U	U		U							
	CNT									205	220	210	200	200	210	230		185							
	UQ									2	5	4	9	11	7	8		1							
	LQ																								
h'F	MED	280	290	280	280	270	225	200	180	170	170	180	175	170	180	180	185	180	180	190	190	200	205	240	270
	CNT	27	27	25	26	28	26	28	28	27	26	27	28	30	30	30	28	29	29	30	30	28	28	27	29
	UQ																								
	LQ																								
(M3000)F2	MED	290	290	290	290	290	310	360	370	370	370	370	370	370	370	370	370	370	370	360	360	350	320	310	290
	CNT	26	24	24	24	26	23	25	25	24	25	25	26	27	27	28	24	22	22	21	24	26	24	26	27
	UQ																								
	LQ																								
foF1	MED										360	420	360		U										
	CNT										1	1	1		500										
	UQ														1										
	LQ																								
foE	MED	F	E	E	E	E	E	E	E	270			370			U	U		E	E	E	J		E	
	CNT	1	1	1	1	4	4	8	6	5			1			300	290		8	18	6	130		1	
	UQ															1	2					1			
	LQ																								
h'E	MED																								
	CNT	1	1	1	1	4	3	99	5	99						99	95		8	99	99	99	99	1	1
	UQ							8		3						1	1			17	6	1			
	LQ																								
foEs	MED	E	E	E	E	E	E	E	E	E			E			E	E	E	E	E	E	E	E	E	E
	CNT	27	27	25	26	28	25	26	22	27	19	12	37	8	16	30	29	22	25	29	27	28	28	27	28
	UQ									21			13			18	20								
	LQ																								

SWEEP 1.5 MC TO 18.0 MC IN 30 SECONDS SEPTEMBER, 1957

TABLE 79

CANBERRA, AUSTRALIA (35.3S, 149.0E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	CNT	75	70	70	67	65	60	65	85	90	105	108	110	110	108	102	110	105	95	92	90	90	80	78	75
	UQ	29	29	27	27	28	26	27	27	27	27	28	26	27	26	28	29	30	30	30	30	29	29	28	29
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	280	275	260	280	270	260	230	220	210	200	200	210	210	210	210	220	230	240	240	240	250	280	290
	CNT	20	23	24	27	29	23	27	28	29	28	25	22	19	21	25	28	29	30	30	30	27	26	23	23
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								170	315	340	370	U 380	Q 370	U 380	380	370	335	290	210					
	CNT								27	24	24	16	16	18	17	21	28	27	28	18					
h'E	MED																								
	CNT																								
foEs	MED		E	E	E	E	E	E	E						E	E	E	E	E		E	E	E	E	E
	CNT	26	10	10	10	10	10	17	26	33	37	42	40	41	38	26	28	34	29	21	10	10	10	10	10
	UQ	29	29	28	28	29	27	29	29	29	29	30	29	29	26	28	28	29	30	30	30	29	29	29	29
	LQ																								

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. MARCH, 1957

TABLE 80

CANBERRA, AUSTRALIA (35.3S, 149.0E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	U	D	U	D	D	D	D	D	U	U	U	U	U	U	U	U		D	D	D	D	D
	CNT	78	75	75	65	67	60	70	80	88	105	106	101	107	105	98	98	92	90	91	82	80	80	80	78
	UQ	10	10	7	8	8	8	8	9	8	7	10	12	10	10	10	8	11	11	9	10	10	8	9	9
	LQ																								
h'F2	MED								1	2	2	380	400	390	370	360	2	4							
	CNT											5	8	8	6	5									
	UQ																								
	LQ																								
h'F	MED	265	290	255	300	300	300	270	235	230		215	220	210	230	220	210	220	240	250	265	290	290	290	290
	CNT	8	7	6	5	6	6	8	6	5	4	6	9	6	6	6	7	9	11	7	8	9	7	7	9
	UQ																								
	LQ																								
(M3000)F2	MED			U		U				270		265	260	250	255	260	260	250	255	260					
	CNT	1	3	255	3	240	4	4	3	7	4	7	10	8	8	9	7	10	9	7	3	2	1	3	3
	UQ			6		5																			
	LQ																								
foF1	MED								1	2	2	4	630	610		610		3							
	CNT												7	8	4	5	2								
	UQ																								
	LQ																								
foE	MED						3	215	285	330	370	380	400	410	415	410	390	370	320	260	E 170				
	CNT							7	7	7	7	7	6	6	5	7	7	7	10	9	6				
h'E	MED																								
	CNT																								
foEs	MED	38	36	33	28	30	30	28	38	38	42	45	46	E 41	E 42	E 41	38	38	E 32	35	32	32	35	35	28
	CNT	10	10	8	8	8	8	8	9	8	7	10	12	11	11	10	9	11	11	9	10	10	9	9	9
	UQ																								
	LQ																								

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. FEBRUARY, 1957

TABLE 81

KERGUELEN I. (49.4S, 70.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	35	33	30	28	28	39	50	58	61	63	68	70	75	75	75	76	72	72	66	64	58	50	45	40
	CNT	17	18	14	11	16	16	21	24	26	27	26	26	24	26	26	27	27	26	24	26	25	24	25	24
	UQ																								
	LQ																								
h'F2	MEQ							550	502	520	500	510	500	490	480	480	460	450	425						
	CNT							7	14	18	23	22	21	21	22	21	22	18	7						
	UQ																								
	LQ																								
h'F	MED	300	332	320	345	350	318	262	242	230	220	215	210	210	220	210	215	220	235	248	250	250	250	250	270
	CNT	13	14	12	15	11	16	22	24	25	25	24	20	17	23	24	24	21	24	20	27	25	15	16	15
	UQ																								
	LQ																								
(M3000)F2	MEQ	250	250	260	250	245	252	255	250	250	245	235	235	235	245	250	250	260	270	285	298	295	288	278	270
	CNT	16	17	13	10	12	14	19	23	24	23	21	23	23	23	24	24	26	23	23	26	21	24	24	23
	UQ																								
	LQ																								
foF1	MEQ						U																		
	CNT						300	360	450	480	500	520	520	530	540	540	530	510	490						
							2	8	16	18	22	22	24	20	23	23	20	13	6						
foE	MEQ	E	U	E																				U	U
	CNT	2	125	1			142	230	275	320	350	360	380	390	400	378	370	345	315	270	200	135		100	130
			1				8	20	23	24	23	19	16	15	15	16	21	21	21	19	17	5		3	3
h'E	MEQ	E	U	E		E																U		E	U
	CNT	1	140	1		1	105	105	105	105	105	102	105	100	100	100	100	105	100	105	105	132			140
			1				5	12	17	23	20	22	23	20	21	22	22	16	22	17	10	4		3	2
foEs	MEQ							G	G	G	G			G	G	G	G	G	G						
	CNT	15	15	15	24	47	31					40	43	41	40						15	15	32	23	15
		19	18	14	15	14	17	23	23	25	26	26	26	24	26	26	26	26	27	24	23	15	20	23	19

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION.

FEBRUARY, 1957

TABLE 82

CANBERRA, AUSTRALIA (35.3S, 149.0E)

TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	D	D	Q	D		D	D												U	U	D	Q	D	D
	CNT	80	75	70	70	69	65	72	78	80	85	89	95	95	96	92	90	88	85	82	84	80	82	85	85
		23	26	23	23	23	21	21	21	20	17	21	19	23	26	28	27	28	27	24	25	25	24	21	25
	UQ																								
	LQ																								
h'F2	MEQ								530	430	430	450	450	440	445	450	455	450	400						
	CNT								8	10	11	19	18	21	26	25	24	23	8	1					
	UQ																								
	LQ																								
h'F	MEQ	300	300	300	310	310	310	260	240	235	230	220	230	235	230	230	230	240	250	255	295	295	300	320	310
	CNT	20	21	18	18	17	18	18	17	10	8	8	5	8	10	16	17	22	20	8	12	12	13	12	17
	UQ																								
	LQ																								
(M3000)F2	MEQ	250	250	U	U	U	240	255	275	250	260	250	245	240	240	240	245	240	260	250	260	U	235	U	
	CNT	5	8	240	245	13	5	11	19	17	15	19	18	20	25	28	26	26	26	22	18	245	7	230	4
				5	5																	9		5	
	UQ																								
	LQ																								
foF1	MEQ								490	560	620	620	640	650	640	630	600	600	520						
	CNT								10	12	12	14	16	18	22	24	23	22	6	1					
foE	MEQ						E																		
	CNT						170	250	320	360	380	400	405	410	410	400	390	380	345	280	190				
							12	17	19	16	16	12	7	6	9	14	16	22	25	23	8				
h'E	MEQ																								
	CNT																								
foEs	MEQ	38	39	35	28	28	32	30	40	45	49	64	59	48	46	45	44	40	41	43	45	38	40	40	38
	CNT	27	26	26	24	23	22	22	24	23	22	24	22	23	26	27	28	27	28	25	27	27	27	27	27

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS.

JANUARY, 1957

TABLE 83

KERGUELEN I. (49.4S, 70.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	40	38	35	35	45	50	59	62	65	68	70	73	74	74	72	71	70	69	68	65	60	55	50	44
	CNT	20	19	18	18	18	22	27	28	28	28	25	28	23	28	28	30	28	29	29	30	29	25	26	23
	UQ																								
	LQ																								
h'F2	MEQ						U																		
	CNT						545	505	508	545	542	545	568	550	548	550	540	515	492	450					
							2	14	20	26	26	22	28	21	26	27	28	27	18	9					
h'F	MEQ	325	322	345	352	352	295	252	245	235	225	220	205	240	220	225	220	225	235	250	250	275	272	280	290
	CNT	11	8	9	8	12	22	26	25	25	24	17	16	16	22	22	25	24	25	25	26	25	14	17	9
	UQ																								
	LQ																								
(M3000)F2	MEQ	250	248	240	245	245	250	235	240	225	225	225	220	220	225	225	225	225	248	268	275	280	275	270	262
	CNT	19	16	17	13	15	17	24	25	25	25	21	23	18	25	25	25	25	26	28	28	27	24	25	22
	UQ																								
	LQ																								
foF1	MEQ							380	440	480	500	530	540	550	550	560	560	550	540	500	480	U			
	CNT							6	19	25	27	28	23	25	21	28	26	30	26	19	9	350			
																						1			
foE	MEQ	U		E		U																	U		
	CNT	125	2	1		170	220	270	320	350	390	402	418	428	420	405	400	350	340	300	250	155	90		
		2				3	19	24	23	24	24	18	22	16	20	12	15	13	20	22	25	7	1		
h'E	MEQ	E		E		U																	E		
	CNT	1		1		120	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	1		
						2	9	17	23	25	23	23	25	25	24	20	22	18	20	19	15	6			
foEs	MEQ							G	G	G	G														
	CNT	32	40	38	41	31	21					48	50	51	47	46	46	40	36	34	30	34	33	30	32
		21	19	18	16	19	24	26	25	26	26	26	27	28	29	28	29	26	27	28	29	20	26	23	24

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION.

JANUARY, 1957

TABLE 84

CANBERRA, AUSTRALIA (35.3S, 149.0E)

TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	Q	Q	D	Q	Q	Q	U	U					U						U	Q			Q	Q
	CNT	80	75	73	70	65	65	76	78	83	86	90	89	90	92	89	88	88	85	86	82	80	80	82	80
		25	25	25	25	24	25	25	23	23	21	20	25	28	30	29	27	29	28	27	26	23	26	24	26
	UQ																								
	LQ																								
h'F2	MEQ								490	455	450	450	455	460	450	455	450	430	410						
	CNT						1	4	7	12	17	16	24	28	28	28	24	27	15						
	UQ																								
	LQ																								
h'F	MEQ	300	300	300	310	320	300	250	240	230	230	220	220	220	230	230	230	240	250	250	290	300	300	300	310
	CNT	18	17	18	19	20	18	21	14	11	7	6	7	12	14	20	20	21	17	10	8	9	12	14	16
	UQ																								
	LQ																								
(M3000)F2	MEQ	U	U		U	U	U														U		U		U
	CNT	245	240	4	230	230	240	250	250	240	235	235	230	230	230	230	240	235	240	245	250	4	230	240	240
		8	7		10	7	7	17	18	19	21	17	24	27	30	29	24	27	26	21	18		8	8	6
	UQ																								
	LQ																								
foF1	MEQ								500	580	620	630	640	630	630	630	620	580	550						
	CNT						1	4	8	14	17	15	22	25	24	25	24	26	12						
foE	MEQ														U						E				
	CNT						190	275	330	370	400	400	410	410	415	410	400	380	345	280	160				
							18	19	20	21	22	15	17	18	22	24	23	25	27	25	6				
h'E	MEQ																								
	CNT																								
foEs	MEQ					E											E								
	CNT	33	27	30	27	10	22	35	42	51	62	68	65	50	50	43	40	42	45	45	46	45	45	44	36
		25	25	25	25	24	25	25	24	24	24	24	26	28	29	28	25	30	28	28	27	27	27	26	26

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS.

DECEMBER, 1956

TABLE 85

CANBERRA, AUSTRALIA (35.3S, 149.0E)

TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 75	D 72	D 66	D 69	D 65	D 68	U 77	U 76	U 80	U 82	D 90	D 90	D 92	D 92	D 90	U 93	U 92	D 85	D 90	D 85	D 80	D 80	D 80	D 75
	CNT	22	23	22	22	23	22	22	22	22	22	23	24	26	28	28	24	25	25	25	25	24	21	24	23
	UQ																								
	LQ																								
h'F2	MED								550	480	500	450	440	430	440	420	440	400							
	CNT							2	5	14	14	15	18	23	25	23	16	11	4						
	UQ																								
	LQ																								
h'F	MED	300	295	300	300	300	300	250	240	235	225	225	220	220	220	230	230	240	250	260	290	290	300	300	300
	CNT	12	18	18	19	18	20	21	18	10	8	12	10	11	12	16	14	21	22	18	14	12	13	14	15
	UQ																								
	LQ																								
(M3000)F2	MED		U 240	U 240	U 240	U 230	U												U 240	U 255	250		U 250		
	CNT	5	10	7	9	7	6	14	19	18	16	15	18	18	20	19	14	18	11	11	7	4	9	2	4
	UQ																								
	LQ																								
foF1	MED								480	560	570	620	610	650	650	630	580	550							
	CNT							2	5	13	15	12	17	23	23	21	15	11	4						
foE	MED						180	270	325	365	385	400	410	410	U 405	400	390	365	320	240	E 170				
	CNT						21	21	21	21	21	20	17	18	19	22	20	25	25	22	8				
h'E	MED																								
	CNT																								
foEs	MED		E		E	E	E																		
	CNT	34 24	12 24	20 24	10 24	10 23	18 23	30 23	37 23	44 22	47 22	48 24	48 24	48 27	47 28	45 27	42 23	39 25	33 25	30 25	38 25	37 25	35 24	31 24	38 24

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

NOVEMBER, 1956

TABLE 86

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	67	64	61	60	64	70	72	77	80	80	82	78	79	78	78	76	77	79	81	84	80	78	74
	CNT	30	30	30	29	29	29	24	30	30	26	29	25	28	27	27	27	28	26	29	27	29	28	28	29
	UQ	75	72	67	65	63	70	78	77	84	86	88	86	85	83	84	83	82	85	84	89	88	84	80	76
	LQ	66	64	61	56	56	57	61	68	73	75	72	70	70	72	71	68	69	70	72	78	76	74	74	69
h'F2	MED					330	330	325	310	330	342	330	365	370	390	398	350	355	330	308	280				
	CNT					7	13	22	25	27	26	27	24	24	24	26	24	27	19	18	15				
	UQ																								
	LQ																								
h'F	MED	288	295	290	285	295	250	235	230	215	210	210	210	215	210	210	215	218	230	230	255	260	250	268	285
	CNT	28	30	30	28	27	23	20	14	14	11	12	19	11	14	9	12	10	13	14	10	24	24	22	27
	UQ																								
	LQ																								
(M3000)F2	MED	255	255	260	260	265	270	280	280	280	280	270	270	270	270	278	275	275	282	285	285	285	275	265	260
	CNT	30	29	30	29	29	29	29	30	30	26	25	25	25	25	26	27	27	24	28	27	29	28	25	28
	UQ	265	265	265	268	272	280	288	285	290	285	288	280	282	280	288	285	285	292	290	295	298	280	270	265
	LQ	250	250	250	255	255	260	270	270	270	265	258	262	258	258	260	265	265	272	278	280	280	270	260	252
foF1	MED						365	425	480	490	510	530	535	550	550	540	520	500	480	405					
	CNT					2	9	15	19	21	25	22	21	22	21	22	22	19	14	8					
foE	MED					E	206	269	304	328	351	362	360	374	370	361	350	336	311	270	203				
	CNT				1	13	25	27	26	26	23	20	18	16	14	20	23	23	24	25	21				
h'E	MED					E	119	108	105	103	103	102	102	102	102	102	102	104	105	110	117				
	CNT					12	24	23	26	27	23	23	23	25	23	23	19	24	22	23	22				
foEs	MED	E							E																E
	CNT	29	16 30	16 30	17 29	20 30	25 29	31 29	34 30	38 30	40 27	39 28	25 26	43 27	39 25	38 27	38 27	35 29	27 27	34 30	33 28	29 29	25 28	22 26	28

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

JUNE, 1956

TABLE 87

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	67	64	58	57	60	65	67	74	76	84	85	87	90	89	84	86	84	90	86	86	78	76	73
	CNT	31	28	30	27	31	28	30	27	31	28	27	27	30	27	31	25	31	25	29	25	30	27	30	26
	UQ	76	74	69	65	62	70	76	86	91	94	96	94	96	97	97	96	96	93	96	94	93	84	81	78
	LQ	62	58	57	53	53	54	56	63	68	70	69	79	80	74	76	73	74	78	78	76	80	71	70	63
h'F2	MED							330	402	378	342	342	370	360	352	350	325	320	295	275					
	CNT						2	11	14	16	22	18	22	24	22	23	17	20	14	16					
	UQ																								
	LQ																								
h'F	MED	295	298	295	285	285	260	242	235	228	220	220	230	218	215	230	235	235	240	250	265	260	255	280	290
	CNT	25	26	26	25	27	26	22	15	12	14	10	10	14	16	13	13	17	14	18	23	24	27	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	255	255	260	260	265	280	288	275	275	280	275	270	265	275	270	275	280	285	290	285	285	275	265	260
	CNT	27	27	27	26	27	27	26	26	25	28	25	27	27	27	27	25	26	25	26	25	26	27	27	26
	UQ	260	265	265	265	275	295	300	290	290	290	285	275	275	280	280	288	290	290	295	298	290	285	270	265
	LQ	245	250	250	250	260	265	270	265	262	260	260	260	260	265	265	270	270	278	285	282	280	265	255	250
foF1	MED							410	470	490	502	510	550	560	540	530	515	500							
	CNT						2	7	16	11	14	11	18	17	19	14	14	13	4	3					
foE	MED					U	U														U				
	CNT					3	201 21	256 25	296 24	328 26	350 26	361 19	369 15	370 14	365 15	360 10	349 14	334 15	296 21	249 21	187 11				
h'E	MED						128	110	105	104	103	103	102	102	104	103	104	104	107	110					
	CNT					2	18	27	24	23	25	23	25	21	25	27	21	20	21	23	4				
foEs	MED			E																					
	CNT	14 28	16 27	30	14 27	14 30	22 28	29 29	34 28	40 26	38 29	41 27	42 29	41 27	31 27	38 26	37 25	35 26	29 25	34 28	29 25	28 27	28 27	19 29	18 26

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

MAY, 1956

TABLE 88

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	65	62	59	54	51	49	60	67	75	82	92	U 97	98	U 97	98	U 96	97	U 96	U 95	U 92	82	76	70	68
	CNT	30	26	28	27	30	28	30	28	29	27	28	28	30	29	30	30	30	28	29	28	29	27	26	25
	UQ	70	68	64	59	56	60	64	74	82	90	98	100	103	100	107	102	102	97	98	94	86	79	74	74
	LQ	58	58	54	44	46	44	53	62	66	74	80	90	91		92	91	90	90	89	87	80	71	62	59
h'F2	MED								275	348	348	320	320	322	330	310	305	270	272						
	CNT							2	12	14	16	20	19	20	13	13	13	8	10	1					
	UQ																								
	LQ																								
h'F	MED	295	300	295	295	305	298	260	240	235	230	220	220	220	225	230	232	240	245	250	248	250	250	275	300
	CNT	27	27	27	27	27	28	28	27	22	22	23	17	23	21	22	26	25	24	24	26	25	25	24	25
	UQ																								
	LQ																								
(M3000)F2	MED	255	255	250	250	250	270	288	295	285	270	270	265	280	275	280	285	285	285	290	290	280	272	260	260
	CNT	27	26	26	26	27	28	28	28	25	23	23	22	25	21	26	25	26	18	21	24	27	26	25	25
	UQ	260	265	265	260	260	295	308	305	300	290	295	285	290	282	285	290	290	290	295	300	290	280	270	265
	LQ	245	245	240	245	240	260	278	270	265	265	265	260	270	270	270	275	280	280	278	285	270	265	252	248
foF1	MED								395	480	500	520	530	520	542	535	500								
	CNT						1	1	8	10	14	14	14	13	10	10	6	2	1						
foE	MED					E																			
	CNT					12	210 26	275 28		313 27	339 26	361 22	368 19	368 20	362 21	358 23	345 22	326 21	279 23	219 21	2				
h'E	MED					E		122	111	109	107	105	104	107	105	105	107	109	110	120					
	CNT					7	22	23		26	25	21	23	23	22	25	24	22	22	21					
foEs	MED	E	E	E	E	E	E	E	E	E		30	36	29	E 30	24	23	24	20	22	18	17	14	E	E
	CNT							16	16																

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

APRIL, 1956

TABLE 89

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	54	53	51	49	46	39	47	67	82	90	101	98	108	106	110	98	104	96	94	87	72	67	62	58
	CNT	31	30	31	31	31	32	31	31	31	31	31	29	31	31	31	31	31	30	30	31	31	31	31	31
	UQ	58	56	55	55	50	45	51	72	92	100	110	110	116	113	116	108	106	99	98	91	79	71	66	62
	LQ	51	48	43	40	35	33	40	59	68	84	91	97	102	96	103	96	96	92	88	74	64	54	55	52
h'F2	MED										250	250	255	260	258	250	258	250							
	CNT								3	6	12	16	19	14	16	11	8	7	2						
	UQ																								
	LQ																								
h'F	MED	312	302	290	285	285	275	265	235	230	225	220	220	220	222	230	230	235	240	230	230	235	248	260	288
	CNT	30	30	31	31	31	30	31	30	30	27	22	22	23	22	25	27	30	27	30	31	31	30	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	255	255	262	267	260	268	289	313	312	306	300	298	296	300	296	298	306	304	311	311	289	276	269	258
	CNT	31	30	30	29	29	31	31	31	29	22	27	18	26	20	27	22	21	18	25	31	31	31	31	30
	UQ	270	264	273	274	281	290	300	321	329	315	305	308	304	310	304	304	314	320	320	310	299	292	280	276
	LQ	234	241	242	247	247	258	276	299	301	288	291	288	292	292	288	292	296	298	303	289	278	269	258	248
foF1	MED										410	440	440	440	440										
	CNT							1	3	3	5	6	8	5	11	3		1							
foE	MED							E		271	312	332	349	355	350	345	327	296	237	E					
	CNT							150	211	26	27	23	26	26	24	28	29	31	23	160					
								17	28											11					
h'E	MED								119	111	108	104	108	106	104	107	108	110	116						
	CNT							4	19	27	28	25	15	24	17	20	17	23	17	2					
foEs	MED	E	E	E	E	E	E	E	E													E	E	E	E
	CNT							16	16	14		30	31	29	27	21	15	17	19	18	16				
		31	31	31	31	31	31	31	31	31	31	31	29	31	31	31	31	31	30	30	31	31	31	31	31

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

MARCH, 1956

TABLE 90

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	39	39	37	38	36	33	31	46	69	81	91	93	96	96	94	92	90	81	67	62	46	40	39	38
	CNT	29	29	29	28	28	28	29	28	29	28	29	28	29	28	28	28	29	28	29	28	29	28	29	28
	UD	52	50	48	46	44	41	38	57	84	94	102	102	102	102	101	102	100	94	82	71	62	56	54	54
	LD	34	33	32	34	32	28	25	40	64	75	80	86	88	84	82	82	80	70	57	50	37	34	32	33
h'F2	MED											235	240	240	245	240	240								
	CNT							1	4	1	4	13	20	14	17	17	15	3							
	UD																								
	LQ																								
h'F	MED	285	275	280	280	270	260	260	242	225	222	220	220	230	230	230	230	230	220	225	228	235	258	288	290
	CNT	28	29	29	29	28	28	27	26	28	26	27	23	25	26	26	25	28	28	27	28	27	28	28	28
	UD																								
	LQ																								
(M3000)F2	MED	274	278	279	277	276	289	294	315	338	342	334	330	335	328	327	331	330	327	316	312	303	288	274	276
	CNT	28	29	27	28	26	27	27	28	28	27	25	21	27	22	23	24	26	28	27	28	27	28	25	25
	UD	282	293	289	287	291	306	310	322	353	360	350	344	348	351	338	346	340	335	326	331	324	294	288	287
	LD	268	270	267	270	268	276	276	310	328	320	316	316	328	310	318	314	326	316	306	300	293	278	264	266
foF1	MED											400	420		420										
	CNT							1	2			6	7	3	7	5	1								
foE	MED								E	218	272	308	321	332	328	318	300	255	U						
	CNT								160	27	24	26	23	24	22	26	21	21	176						
									28										15						
h'E	MED									122	113	111	111	111	110	113	112	116	121						
	CNT								1	19	20	22	22	24	22	22	19	17	5						
foEs	MED	E	E	E	E	E	E	E													E	E	E	E	E
	CNT								14	28	28	28	27	29	27	28	28	28	28	29	28	29	28	29	28

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

FEBRUARY, 1956

TABLE 91

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	34	32	32	30	27	26	26	31	58	78	84	86	84	86	84	76	70	66	53	41	36	33	33	34
	CNT	30	29	30	29	30	30	29	29	30	30	30	28	31	29	29	30	30	28	29	29	28	27	29	29
	UD	36	36	34	34	31	31	30	34	62	86	90	92	90	90	90	81	76	72	57	48	40	36	36	36
	LQ	31	32	30	28	24	23	23	27	53	70	80	80	80	80	80	73	66	60	49	36	32	31	30	30
h'F2	MED											225	230	230	235	245									
	CNT									1	4	12	14	16	12	9	4	1							
	UD																								
	LD																								
h'F	MED	295	285	290	290	285	270	270	260	225	220	230	225	220	230	230	225	220	220	225	235	265	280	300	300
	CNT	29	29	28	30	29	29	27	29	31	27	25	27	26	27	29	27	30	27	28	29	26	29	29	29
	UD																								
	LQ																								
(M3000)F2	MED	274	272	273	271	280	277	285	290	340	346	338	338	337	330	333	338	337	330	324	311	282	274	271	269
	CNT	28	27	29	27	26	29	26	28	29	28	30	26	31	29	29	29	30	27	28	29	28	26	29	29
	UD	288	281	279	282	288	288	306	308	352	353	350	349	350	342	348	348	346	341	336	328	298	284	281	278
	LQ	266	266	259	267	267	270	278	274	325	334	332	333	330	318	325	332	324	313	317	287	273	268	261	259
foF1	MED												U												
	CNT											1	390 5	4	1	1									
foE	MED									160	224	260	279	289	290	271	245	184							
	CNT									21	19	21	19	19	21	21	21	17							
h'E	MED									E	120	119	119	121	121	121	122								
	CNT									5	10	16	15	15	15	19	8	1							
foEs	MED	E	E	E	E	E	E	E	E	E		20	22	20		20	19	18	E	E	E	E	E	E	E
	CNT	30	30	30	30	30	30	30	29	31	28	28	27	28	26	29	28	28	28	30	29	29	30	30	30

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

JANUARY, 1956

TABLE 92

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	33	34	36	35	32	32	30	33	59	74	86	90	86	85	83	80	71	55	46	37	32	29	31	33
	CNT	27	27	27	26	28	28	28	27	26	28	28	26	27	27	28	29	29	29	26	29	28	28	28	27
	UQ																								
	LQ																								
h'F2	MED											240	235	228											
	CNT							1				4	9	11	6	2	2			1		1			
	UQ																								
	LQ																								
h'F	MED	300	295	280	280	255	250	235	240	225	220	225	230	225	225	230	228	220	215	225	240	245	270	305	305
	CNT	28	29	26	27	27	27	26	26	27	26	27	21	23	24	28	28	28	27	26	24	26	22	23	26
	UQ																								
	LQ																								
(M3000)F2	MED	273	273	279	283	291	300	306	286	334	338	335	343	336	336	333	341	339	332	320	318	306	278	272	270
	CNT	25	26	26	25	28	27	27	26	26	28	28	23	26	27	27	28	27	28	26	29	26	26	26	26
	UQ																								
	LQ																								
foF1	MED																								
	CNT							1				1	2	3	1					1		1			
foE	MED									155	223	255	276	282	279	261	225	E 160							
	CNT									20	25	26	23	21	27	21	21	14							
h'E	MED										121	116	116	117	118	119	123								
	CNT									4	14	17	13	9	15	16	12	1							
foEs	MED	E	E	E	E	E	E	E	E	E		20	18	26	26	24	22	18		E	E	E	E	E	E
	CNT	28	29	28	27	28	28	28	26	26	28	27	26	27	28	28	28	29	29	29	29	29	29	28	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

DECEMBER, 1955

TABLE 93

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	34	35	35	34	32	30	28	48	69	80	88	91	90	86	88	90	78	64	50	42	37	33	33	34
	CNT	30	30	30	30	29	30	30	29	30	28	30	29	30	30	30	30	30	30	30	30	29	30	30	30
	UQ																								
	LQ																								
h'F2	MED										230	235	235	230	235	245									
	CNT										7	17	23	23	17	10									
	UQ																								
	LQ																								
h'F	MED	290	290	282	282	265	258	245	230	225	225	225	222	220	230	235	235	220	220	220	235	245	260	292	290
	CNT	30	30	30	30	29	28	27	29	30	27	24	24	26	25	29	29	29	29	29	28	27	25	26	30
	UQ																								
	LQ																								
(M3000)F2	MED	276	279	274	280	290	298	300	325	344	348	333	337	333	330	328	333	341	328	318	316	308	293	276	273
	CNT	29	30	30	30	29	30	30	29	30	28	29	27	26	28	29	29	30	30	30	30	29	30	30	29
	UQ																								
	LQ																								
foF1	MED											U	U	U											
	CNT										1	360	360	360	2										
												11	8	10											
foE	MEQ								E	198	244	271	290	293	288	270	229	162							
	CNT								160	27	17	16	22	21	28	25	26	14							
									18																
h'E	MEQ									125	119	117	114	116	115	121	121								
	CNT								1	15	19	19	17	16	7	9	7	1							
foEs		E	E	E	E	E	E	E	E												E	E	E	E	E
	MEQ										24	27	30	26	26	23	20	20	16	15	30				
	CNT	30	30	30	30	30	30	30	29	30	28	30	29	30	30	30	30	30	30	30		30	30	30	30

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

NOVEMBER, 1955

TABLE 94

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	39	38	39	38	38	35	36	58	67	73	82	85	87	83	86	84	82	78	68	60	49	43	41	39
	CNT	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31
	UQ																								
	LQ																								
h'F2	MED								2	245	245	250	255	250	260	255	250	255							
	CNT									16	22	22	28	25	21	21	18	11	2						
	UQ																								
	LQ																								
h'F	MEQ	280	290	295	285	270	245	250	230	225	228	218	220	215	220	230	240	240	235	230	230	235	250	275	280
	CNT	29	31	31	30	29	31	30	28	27	18	20	22	17	21	23	28	26	28	29	29	30	27	27	26
	UQ																								
	LQ																								
(M3000)F2	MED	275	278	276	278	291	309	308	343	341	338	331	329	327	326	318	328	329	333	322	322	315	294	286	278
	CNT	31	30	30	30	29	30	30	31	31	31	31	29	30	31	31	31	31	31	30	31	31	31	31	30
	UQ																								
	LQ																								
foF1	MED								2	350	400	415	415	425	400			1							
	CNT									7	6	9	8	7	5	3	1								
foE	MED								175	240	278	298	309	312	310	288	260	220	170						
	CNT								22	21	21	18	17	22	23	28	26	20	11						
h'E	MEQ								133	120	116	112	111	111	111	112	112	121	151						
	CNT								7	21	27	25	22	20	18	17	15	9	5						
foEs		E	E	E	E	E	E	E																E	E
	MEQ								18	21	29	31	32	31	27	23	22	24	22	20	17	14	14		
	CNT	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

OCTOBER, 1955

TABLE 95

CAMPBELL I. (52.5S, 169.2E)

TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED						38	46	53	56	58	63	64	66	66	68	68	68	66	65	64	59	52	47	43
	CNT						23	26	24	25	28	26	25	27	30	29	29	29	30	30	30	29	27	27	27
	UQ																								
	LQ																								
h'F2	MEQ						270	260	320	330	340	340	330	340	330	330	320	300	290	270	270	270	270	280	300
	CNT						22	21	16	24	28	25	25	26	28	28	28	25	28	30	30	25	19	19	10
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ						310	310	310	300	300	290	300	300	300	290	290	300	300	300	300	290	290	290	280
	CNT						22	25	24	25	26	26	25	26	30	29	28	29	30	30	30	29	27	24	27
	UQ																								
	LQ																								
foF1	MEQ								400	430	440	460	460	470	460	450	420	400	340						
	CNT								16	24	28	27	25	29	27	27	24	20	14						
foE	MED							240	260	300	310	320	320	330	320	310	300	270	240						
	CNT							16	23	23	20	18	13	13	17	16	16	19	21						
h'E	MEQ							130	125	120	120	120	120	120	120	125	125	130	130						
	CNT							16	23	23	20	18	13	13	17	16	16	19	21						
foEs	MED										28	28	29	29	28	29	29	28	20					39	33
	CNT										5	7	10	11	7	10	10	9	5					6	9

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES.

OCTOBER, 1955

TABLE 96

FREIBURG, GERMANY (48.1N, 7.8E)

TIME LOCA

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	38	37	36	35	32	41	50	53	58	64	64	66	64	65	67	66	66	70	66	60	51	46	41
	CNT	30	29	30	29	29	28	30	28	30	28	30	29	30	30	30	30	29	30	29	29	30	29	29	29
	UQ																								
	LQ																								
h'F2	MEQ							270	280	285	290	290	290	290	290	295	280	265	270						
	CNT							5	14	20	21	29	26	24	30	26	22	22	19	3					
	UQ																								
	LQ																								
h'F	MEQ	285	285	295	290	280	260	248	235	220	220	215	215	215	220	212	222	240	245	250	238	250	240	260	270
	CNT	24	27	27	28	26	25	24	22	18	20	19	18	17	20	18	20	23	25	24	22	29	27	21	23
	UQ																								
	LQ																								
(M3000)F2	MED	280	277	276	276	282	294	323	328	327	322	326	325	315	318	317	317	319	317	316	309	306	306	293	287
	CNT	29	28	29	29	28	27	29	28	28	27	29	28	29	30	30	30	29	30	29	29	29	28	28	28
	UQ																								
	LQ																								
foF1	MEQ								370	402	420	430	440	445	445	435	410	360							
	CNT							1	6	12	20	23	23	18	21	17	11	5	2						
foE	MEQ							153	214	260	286	305	322	318	319	301	286	265	225	E 160					
	CNT							13	21	19	15	17	18	16	18	18	25	25	21	13					
h'E	MEQ							142	120	111	110	109	109	108	110	110	109	112	118						
	CNT							12	23	22	25	27	25	17	20	20	15	16	10	4					
foEs	MED	13	E	E	E	E	E	17	21	26	31	32	34	33	31	28	24	23	23	21	16	17	18	18	17
	CNT	29	29	29	29	29	29	29	28	28	28	30	28	29	30	30	30	30	29	29	30	30	29	29	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

SEPTEMBER, 1955

TABLE 97

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	64	61	55	50	43	40	54	78	86	100	102	104	108	103	100	105	106	108	114	122	128	132	118	92
	CNT	16	17	13	15	17	18	18	18	19	17	19	16	18	17	14	18	18	18	16	18	14	12	11	13
	UQ																								
	LQ																								
h'F2	MED								252	275	285	290	305	300	315	350	352	332	335						
	CNT								18	19	17	19	16	17	17	15	18	16	14						
	UQ																								
	LQ																								
h'F	MED	195	212	238	255	270	255	245	235	225	215	208	200	195	195	195	195	220	245	270	285	265	225	205	195
	CNT	17	18	18	18	17	18	18	14	16	9	10	13	12	14	15	7	7	9	14	17	18	17	16	17
	UQ																								
	LQ																								
(M3000)F2	MED	325	298	287	282	286	309	333	356	324	321	318	294	298	280	268	266	268	273	284	288	U 296	U 336	U 355	344
	CNT	15	14	12	13	16	15	17	18	19	17	19	16	18	17	13	18	18	18	15	16	9	7	9	13
	UQ																								
	LQ																								
foF1	MED									3	485	490	490	495	490	490	480								
	CNT										8	13	13	12	13	9	5								
foE	MED							E		289	327	349	358	360	360	348	333	295	240						
	CNT							5	229 16	19	17	16	13	11	11	14	17	14	9	1					
h'E	MED							E		109	107	105	107	109	109	111	110	111	113						
	CNT							5	115 9	9	10	5	6	7	6	6	11	10	6	1					
foEs	MED	E	E						E	E			E	E		E	E					E	E	E	E
	CNT	17	18	13	15	13	14	18	17	20	19	21	21	23	25	26	21	20	28	24	20	15			
				18	17	17	18	18	17	19	17	19	15	18	16	17	19	18	20	19	18	19	17	16	16

SWEEP 1.25 MC TO 20.0 MC IN 10 , AUTOMATIC OPERATION

SEPTEMBER, 1955

TABLE 98

CAMPBELL 1, 152.5S, 169.2E1

TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED						21	34	44	49	53	55	57	59	60	60	58	58	58	53	48	41	34	30	27
	CNT						21	29	29	28	29	29	29	30	30	30	30	30	29	27	28	28	27	23	21
	UQ																								
	LQ																								
h'F2	MED						290	260	260	290	300	320	320	320	320	310	290	270	270	250	260	270	270		
	CNT						9	25	25	26	29	28	29	30	30	30	30	30	29	26	19	11	5		
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						310	320	320	320	310	310	310	310	300	310	310	310	300	300	300	290	290	280	280
	CNT						15	29	29	28	29	28	29	30	30	30	30	30	29	27	28	26	22	18	14
	UQ																								
	LQ																								
foF1	MED								290	370	410	420	430	430	430	410	390	350							
	CNT								10	26	26	27	30	28	30	30	27	23							
foE	MED								220	250	280	300	300	310	290	280	260	240	210						
	CNT								24	28	24	22	22	15	18	21	18	21	5						
h'E	MED								130	130	125	125	125	120	125	130	130	130	140						
	CNT								24	28	24	21	22	15	18	21	18	20	5						
foEs	MED							18	22		29	29	29	28	28	29	29	20						39	28
	CNT							7	5		8	10	11	15	14	9	14	5						6	7

SWEEP 1.0 MC TO 13.0 MC IN 2 MINUTES.

SEPTEMBER, 1955

TABLE 99

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	54	48	43	28	27	36	68	88	90	88	92	96	101	97	93	92	93	96	96	84	89	60	62
	CNT	29	24	24	25	24	28	31	30	31	31	31	30	31	29	30	29	30	27	30	30	27	29	28	29
	UQ																								
	LQ																								
h'F2	MED								258	280	275	290	290	295	295	320	310	302	290						
	CNT								30	31	30	30	31	30	30	30	27	28	24						
	UQ																								
	LQ																								
h'F	MED	225	210	225	245	255	255	258	235	225	220	210	205	200	195	190	190	210	242	250	250	225	210	205	212
	CNT	31	30	28	28	25	25	30	21	17	15	17	21	21	26	21	11	11	16	26	28	29	30	31	30
	UQ																								
	LQ																								
(M3000)F2	MED	317	332	312	308	304	326	324	348	337	342	325	320	314	307	284	282	286	295	303	314	333	351	344	336
	CNT	25	19	16	19	18	20	28	30	30	30	30	30	31	29	30	28	30	26	27	28	27	26	26	27
	UQ																								
	LQ																								
foF1	MED									420	450	460	470	470	460	450	430	420							
	CNT								2	19	18	18	20	25	23	15	9	9	1						
foE	MED							E		278	316	338	348	352	348	340	318	288	234	155					
	CNT							13	217 29	30	31	29	29	25	28	25	26	20	16	8					
h'E	MED							E		108	107	106	106	106	106	108	108	110	114	E					
	CNT							13	117 27	27	28	27	26	26	26	24	23	19	8	5					
foEs	MED	E	E			E				E							25	31	26	24	24	24	18	15	14
	CNT	31	30	16	15	16	18	18	15	30	30	30	30	30	30	30	30	30	29	29	30	30	30	31	30
				29	30	29	28	31	29																

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES, AUTOMATIC OPERATION.

AUGUST, 1955

TABLE 100

LWIRO, CONGO (2.3S, 28.8E)

TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	53	41	36	33	27	35	66	76	76	85	83	93	94	92	97	90	90	92	94	90	66	50	50
	CNT	22	22	15	20	22	22	29	28	28	30	30	30	31	29	29	27	30	31	29	30	29	30	28	24
	UQ																								
	LQ																								
h'F2	MED								255	260	272	280	280	300	295	310	305	288	290						
	CNT								28	27	30	29	28	31	29	29	26	28	26						
	UQ																								
	LQ																								
h'F	MED	220	228	220	230	240	240	255	240	225	215	205	200	195	195	195	202	U 225	245	238	230	215	205	208	230
	CNT	26	26	26	22	22	17	26	19	17	15	13	16	20	17	12	18	9	13	20	27	29	30	28	25
	UQ																								
	LQ																								
(M3000)F2	MED	331	338	329	318	324	322	334	358	358	348	345	333	326	306	295	300	295	305	315	333	357	368	334	315
	CNT	20	18	14	17	16	16	7	27	46	28	29	28	30	29	29	27	30	29	28	29	27	29	26	21
	UQ																								
	LQ																								
foF1	MED								2	410	440	460	460	465	460	455	430	440							
	CNT									14	17	18	20	22	19	14	18	5	1						
foE	MED							E	213	275	310	330	344	349	344	335	315	282	234						
	CNT							14	25	27	29	29	29	27	25	27	23	22	18						
h'E	MED							E		109	107	107	106	107	108	109	109	111	112						
	CNT							14	118 25	21	22	24	E 25	20	18	18	19	14	13						
foEs	MED	24	23	26	22	24	28	22	E	19	15	19	E 20	21	30	22	32	31	25	32	27	28	20	16	18
	CNT	28	28	30	30	29	28	28	29	28	29	29	30	29	30	30	30	30	30	29	29	29	30	30	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES, AUTOMATIC OPERATION

JULY, 1955

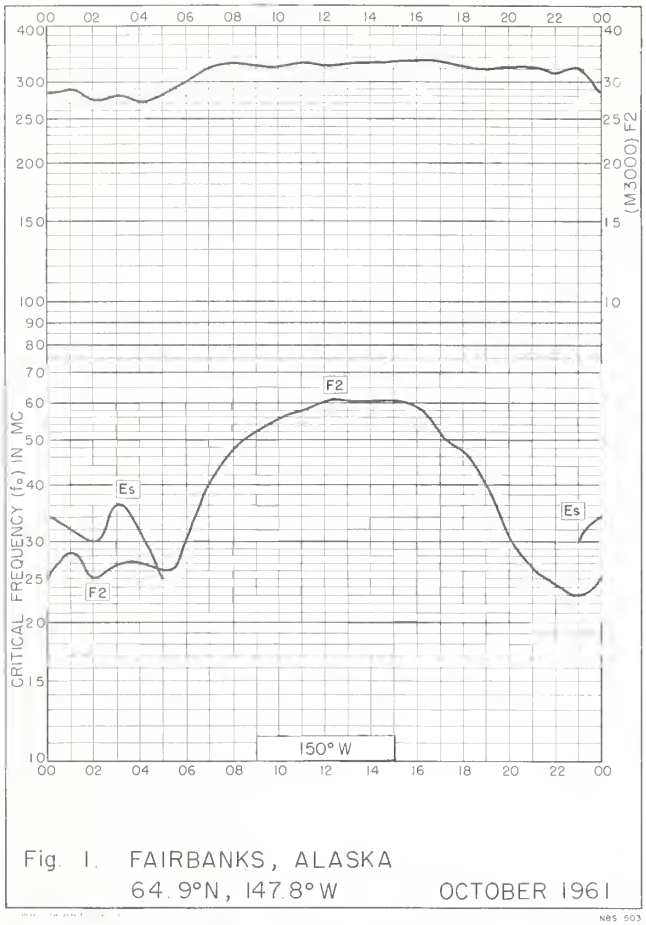

Fig. 1. FAIRBANKS, ALASKA
64.9°N, 147.8°W OCTOBER 1961

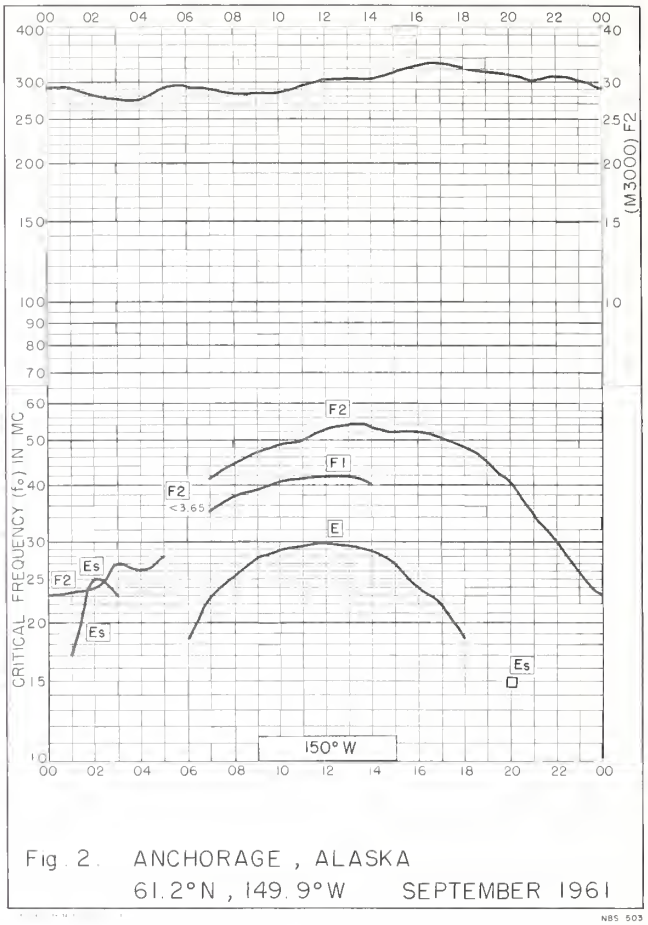

Fig. 2. ANCHORAGE, ALASKA
61.2°N, 149.9°W SEPTEMBER 1961

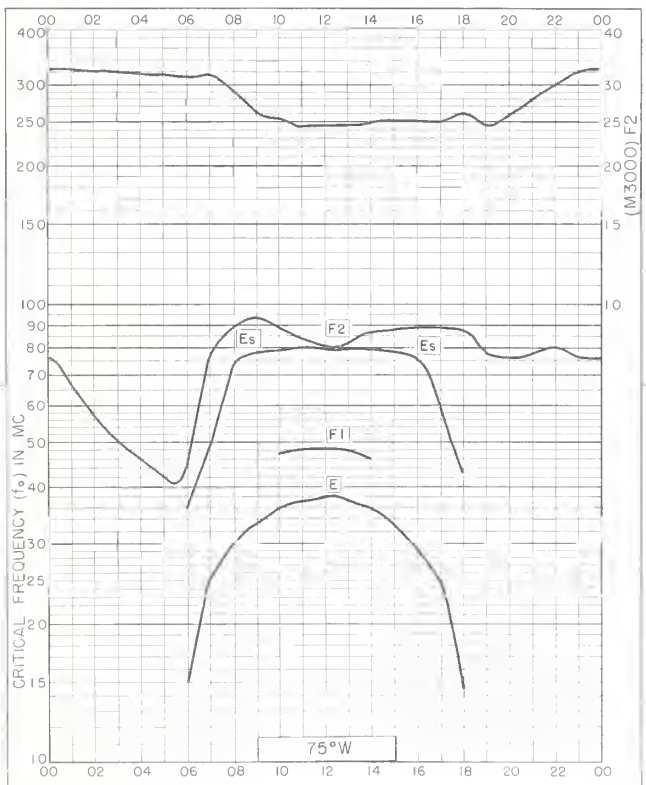

Fig. 3. HUANCAYO, PERU
12.0°S, 75.3°W SEPTEMBER 1961

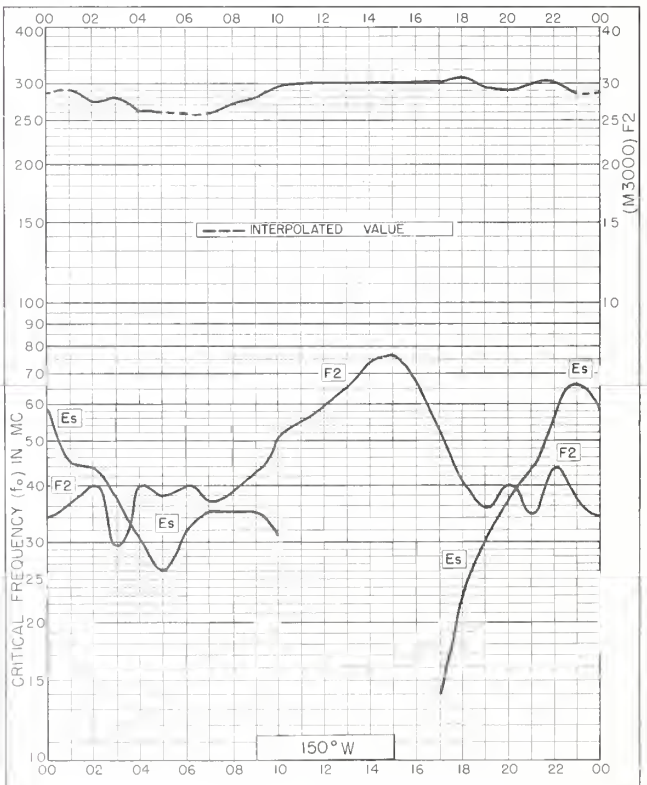

Fig. 4. POINT BARROW, ALASKA
71.3°N, 156.8°W NOVEMBER 1960

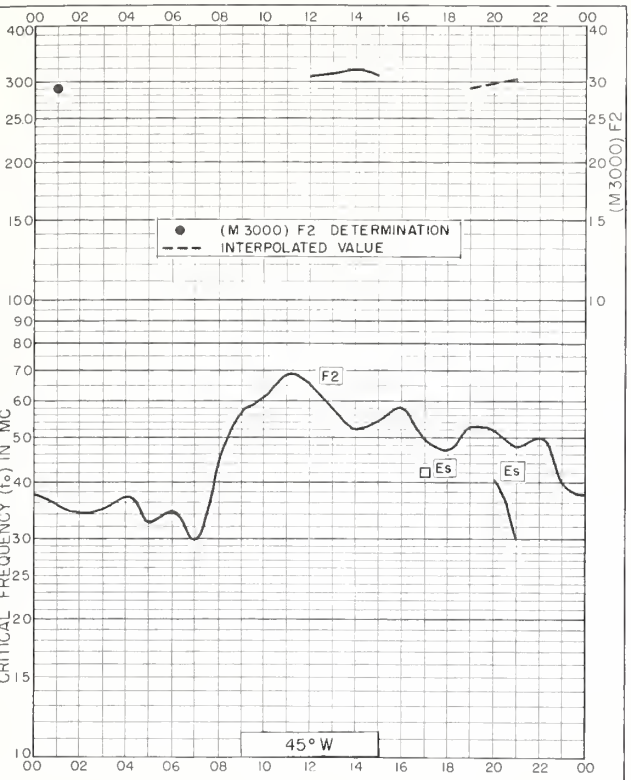

Fig. 5. GODHAVN, GREENLAND
69.3°N, 53.5°W NOVEMBER 1960

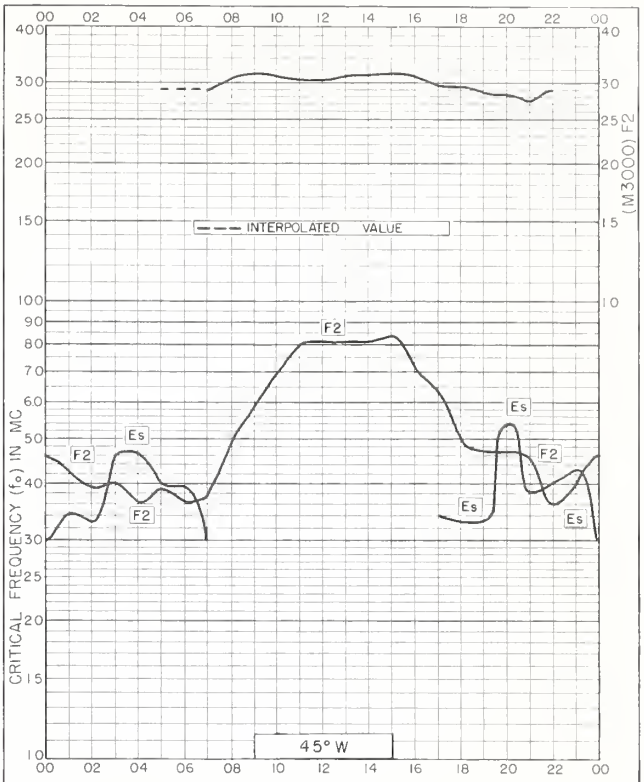

Fig. 6. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W NOVEMBER 1960

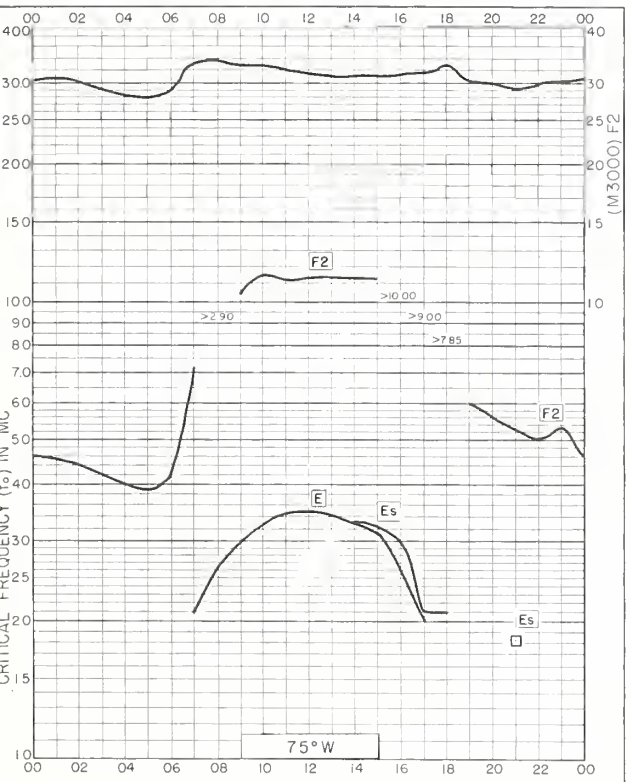

Fig. 7. GRAND BAHAMA I.
26.6°N, 78.2°W NOVEMBER 1960

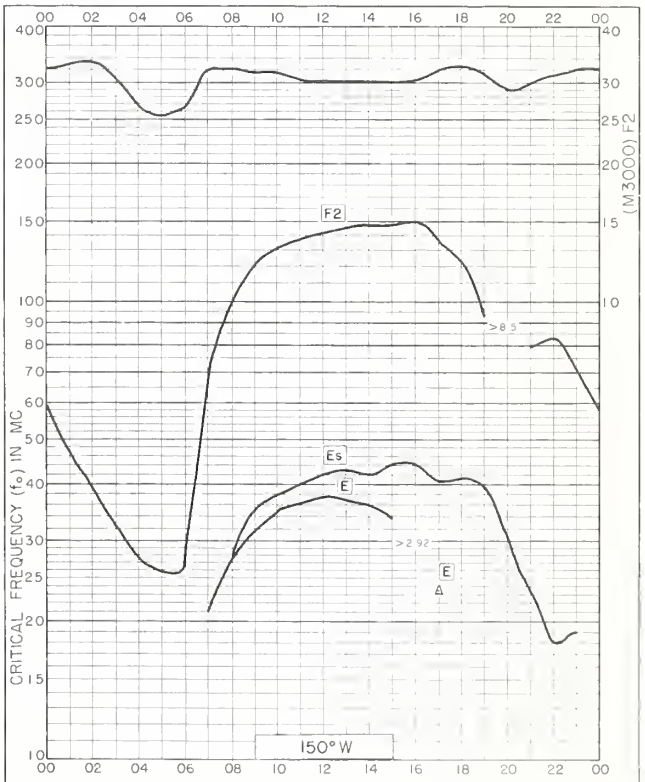

Fig. 8. MAUI, HAWAII
20.8°N, 156.5°W NOVEMBER 1960

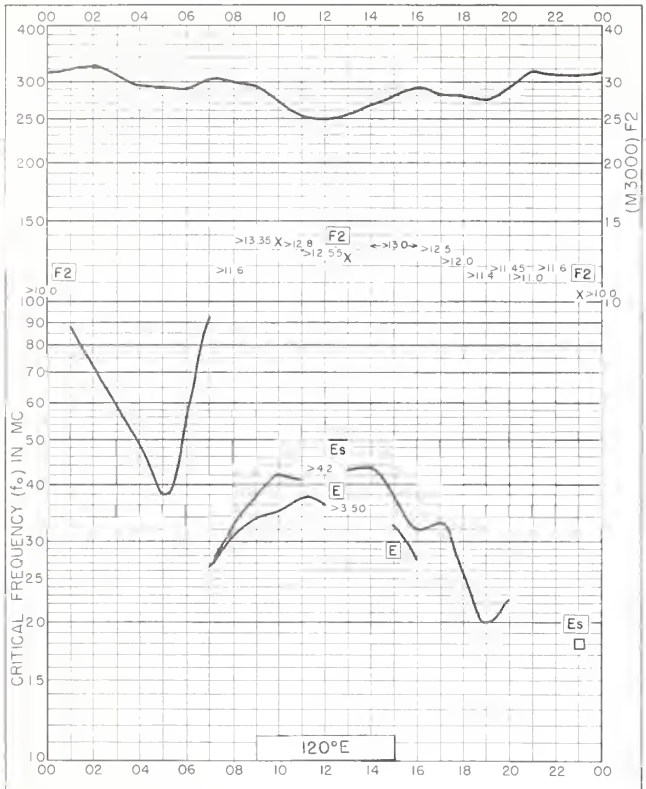

Fig. 9. BAGUIO, P. I.
16.4°N, 120.6°E NOVEMBER 1960

Fig. 10. La PAZ, BOLIVIA
16.5°S, 68.1°W NOVEMBER 1960

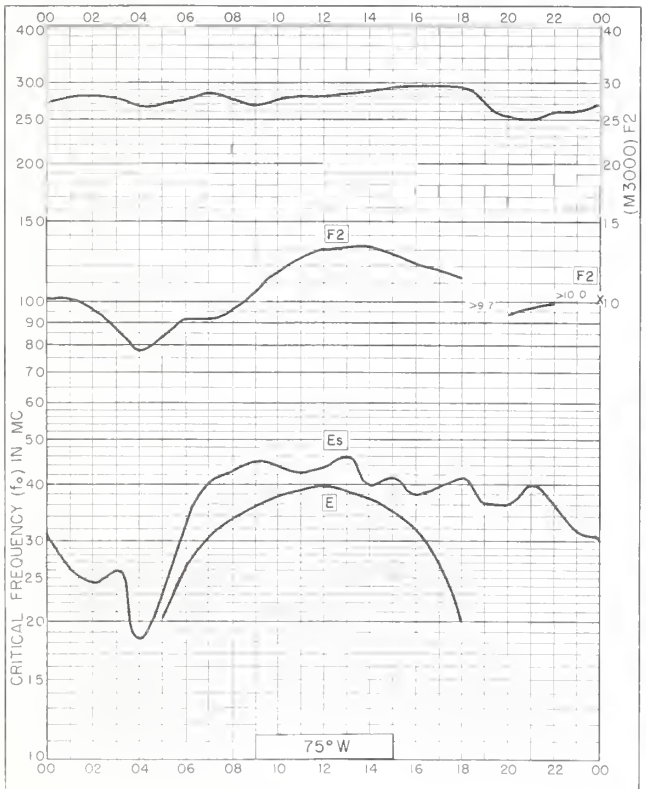

Fig. 11. CONCEPCION, CHILE
36.6°S, 73.0°W NOVEMBER 1960

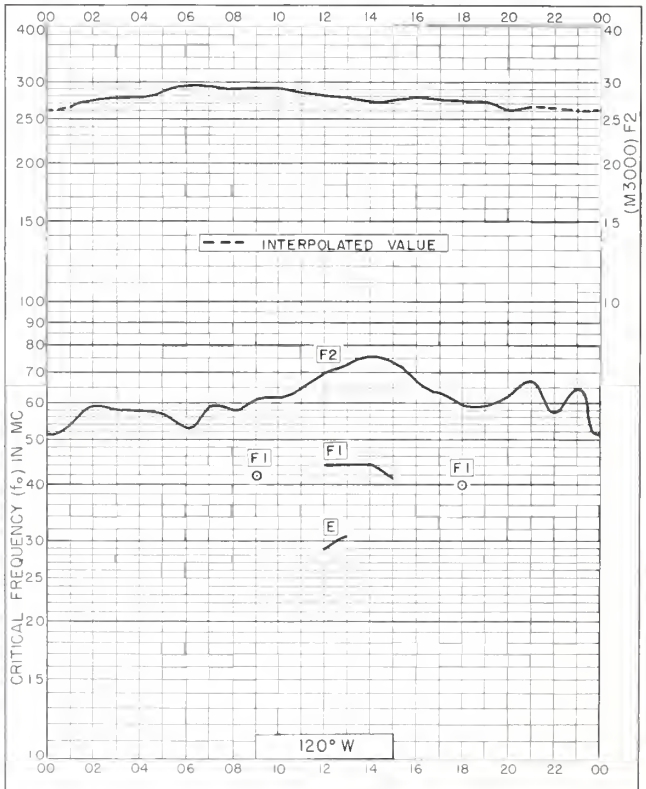

Fig. 12. BYRD STATION
80.0°S, 120.0°W NOVEMBER 1960

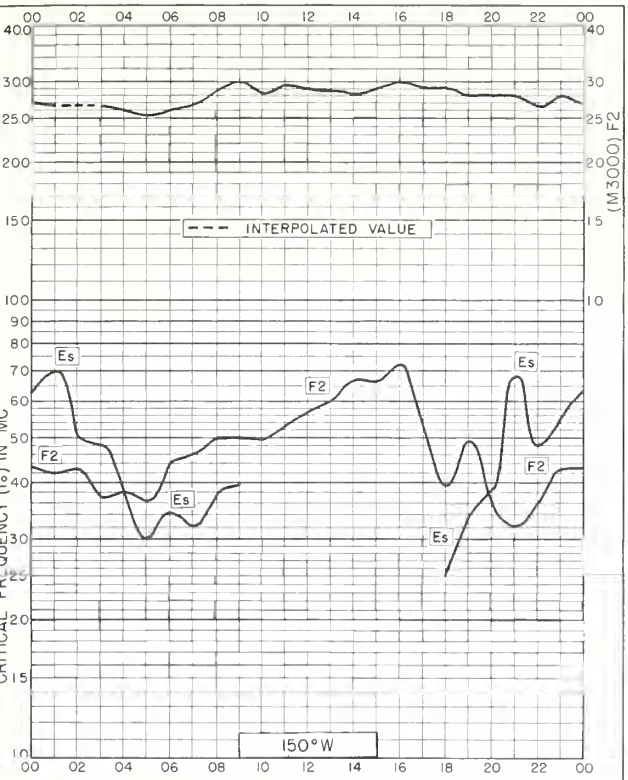

Fig. 13. POINT BARROW, ALASKA
71.3°N, 156.8° W OCTOBER 1960

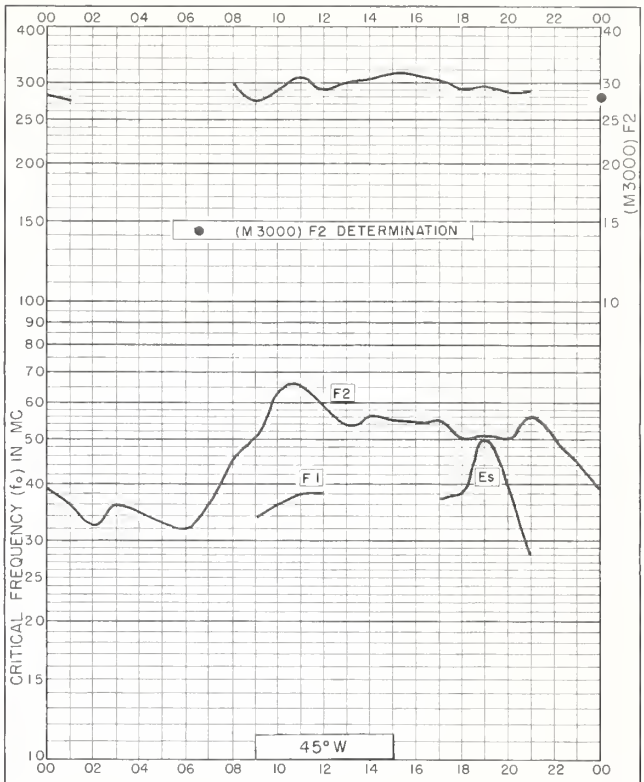

Fig. 14. GODHAVN, GREENLAND
69.3°N, 53.5°W OCTOBER 1960

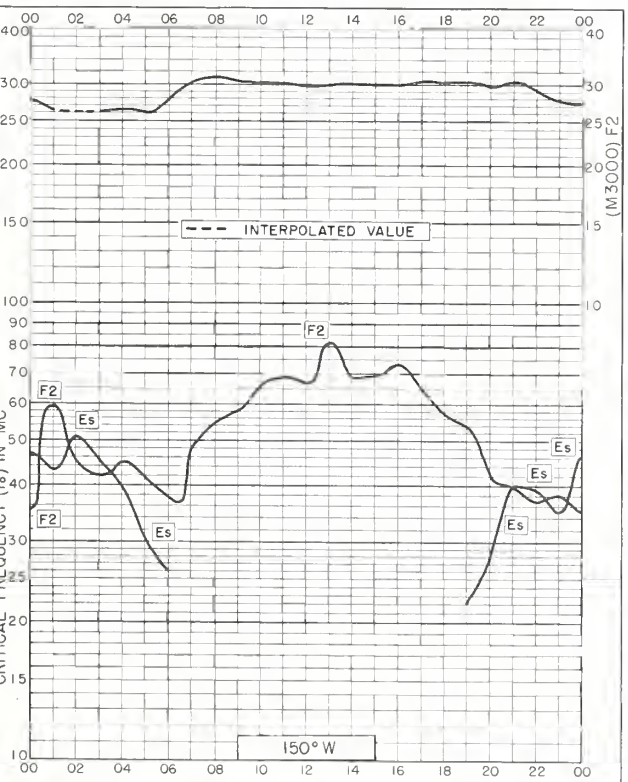

Fig. 15. FAIRBANKS, ALASKA
64.9°N, 147.8° W OCTOBER 1960

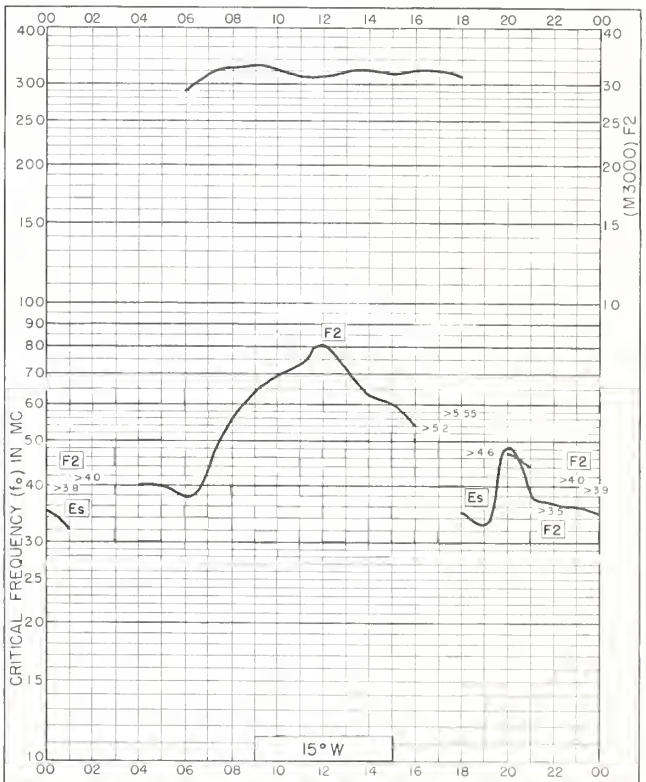

Fig. 16. REYKJAVIK, ICELAND
64.1°N, 21.8° W OCTOBER 1960

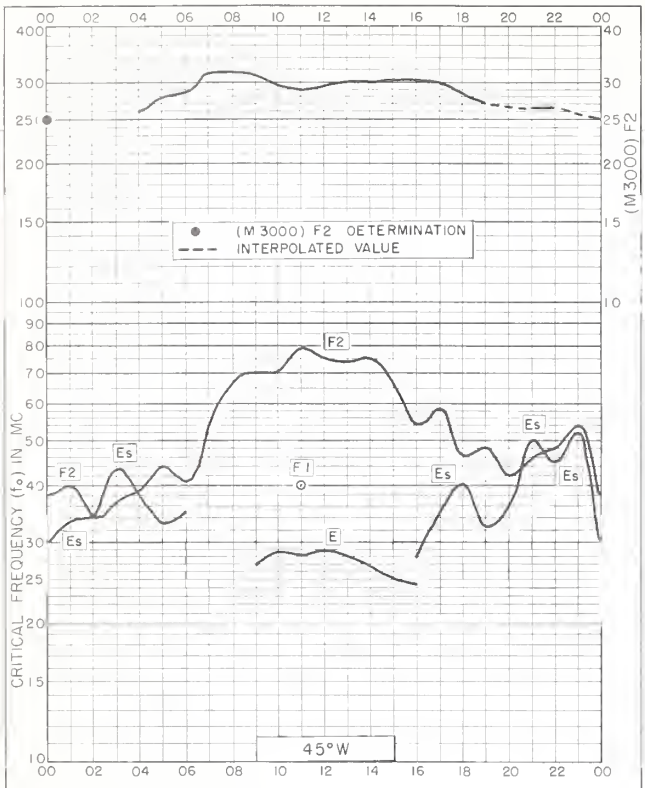

Fig. 17. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4° W OCTOBER 1960

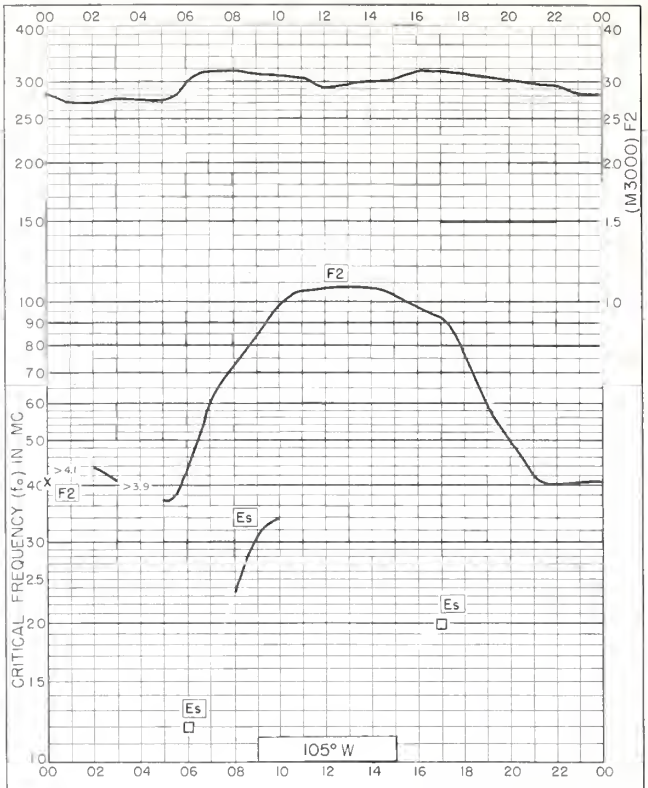

Fig. 18. BOULDER, COLORADO
40.0°N, 105.3°W OCTOBER 1960

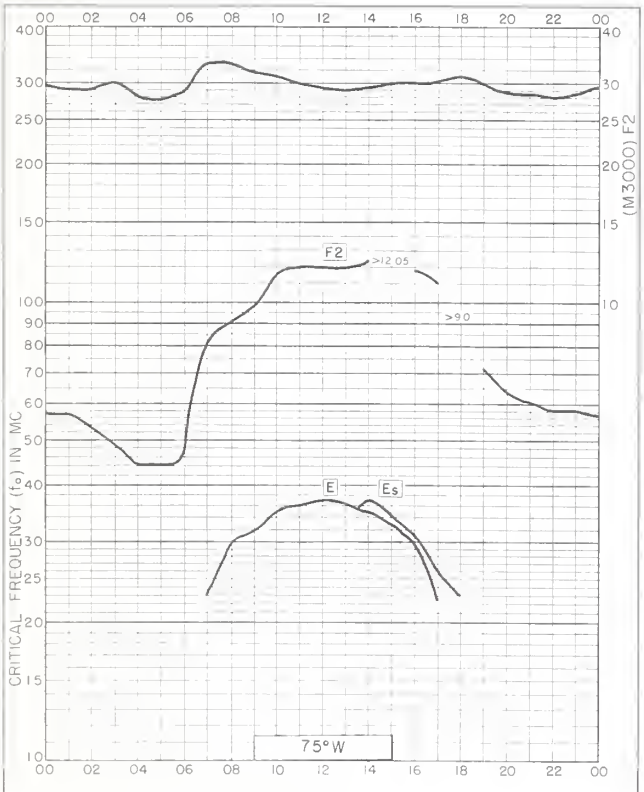

Fig. 19. GRAND BAHAMA I.
26.6°N, 78.2° W OCTOBER 1960

Fig. 20. MAUI, HAWAII
20.8°N, 156.5° W OCTOBER 1960

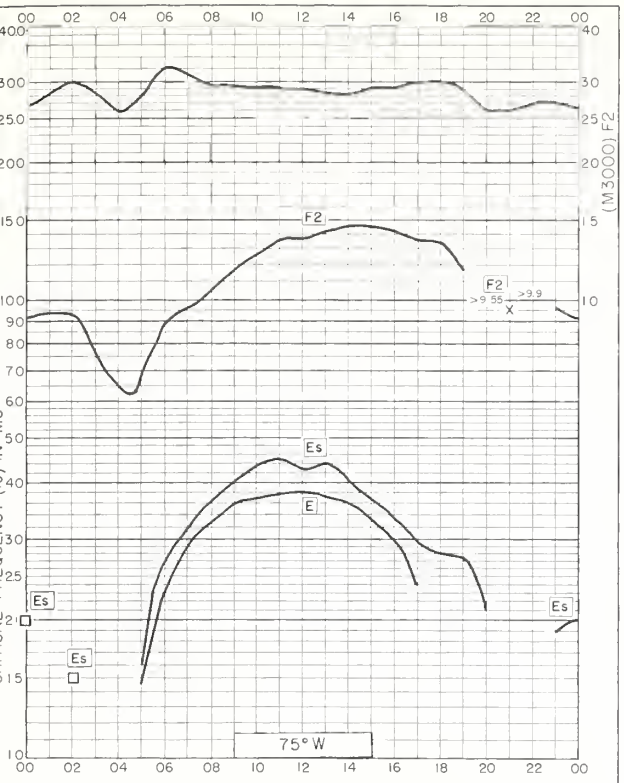

Fig. 21. CONCEPCION, CHILE
36.6°S, 73.0°W OCTOBER 1960

Fig. 22. BYRD STATION
80.0°S, 120.0°W OCTOBER 1960

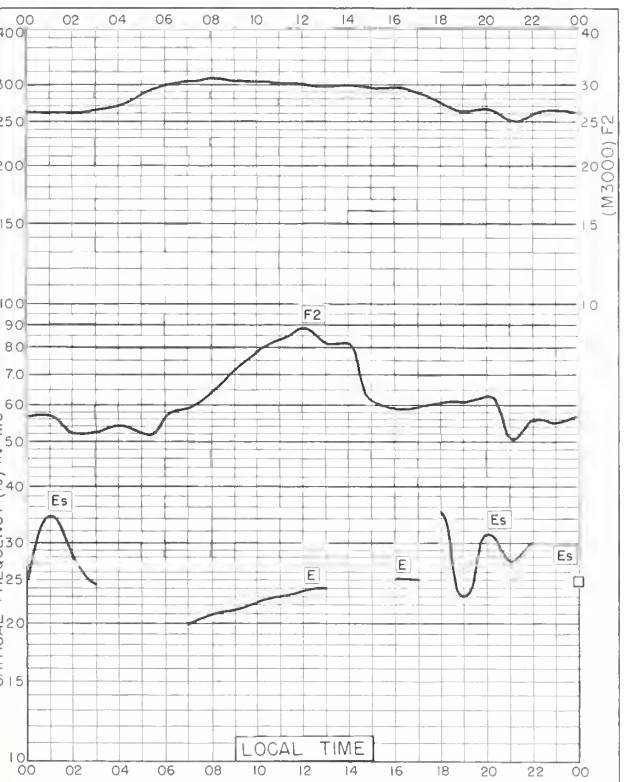

Fig. 23. BYRD STATION
80.0°S, 120.0°W SEPTEMBER 1960

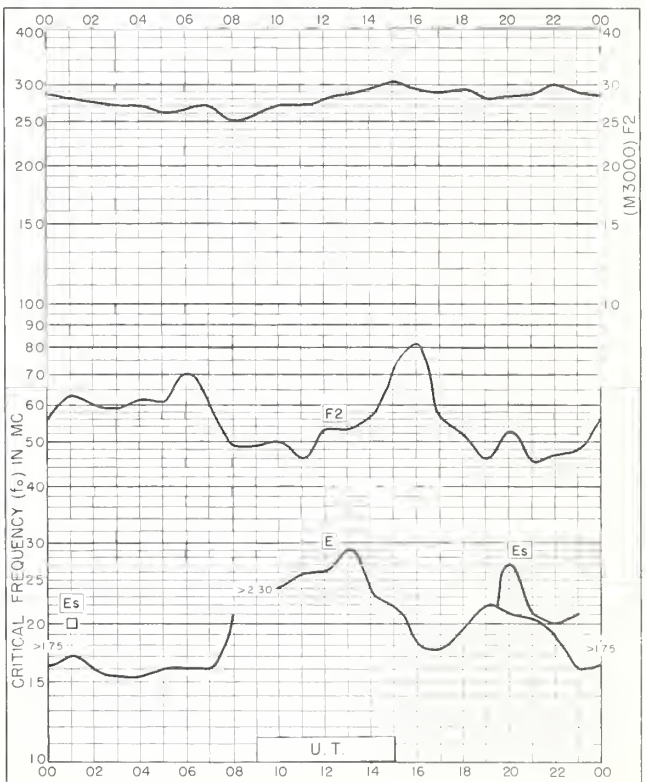

Fig. 24. POLE STATION
90.0°S SEPTEMBER 1960

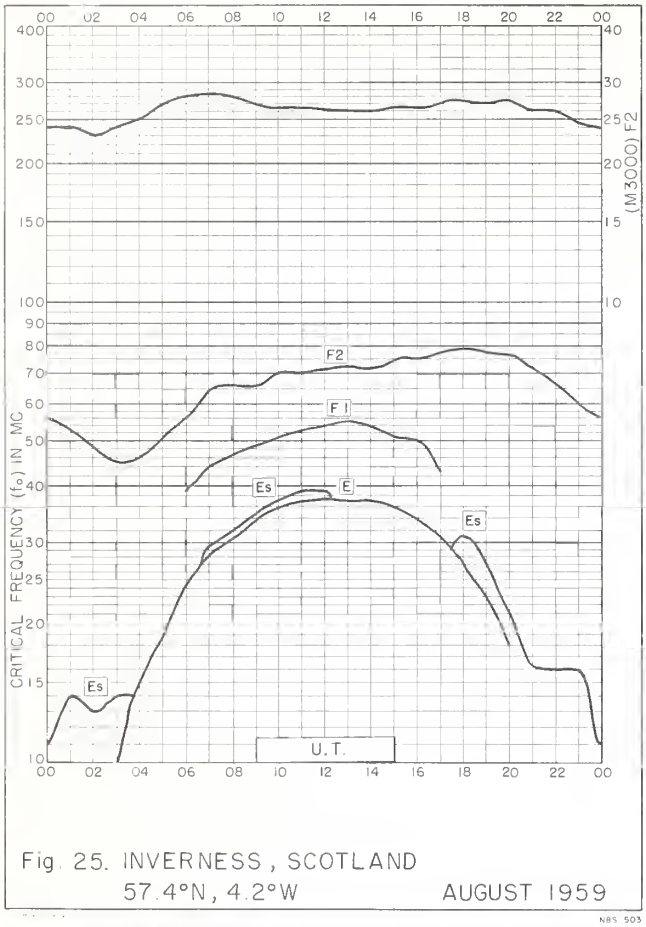

Fig. 25. INVERNESS, SCOTLAND
57.4°N, 4.2°W AUGUST 1959

NBS 503

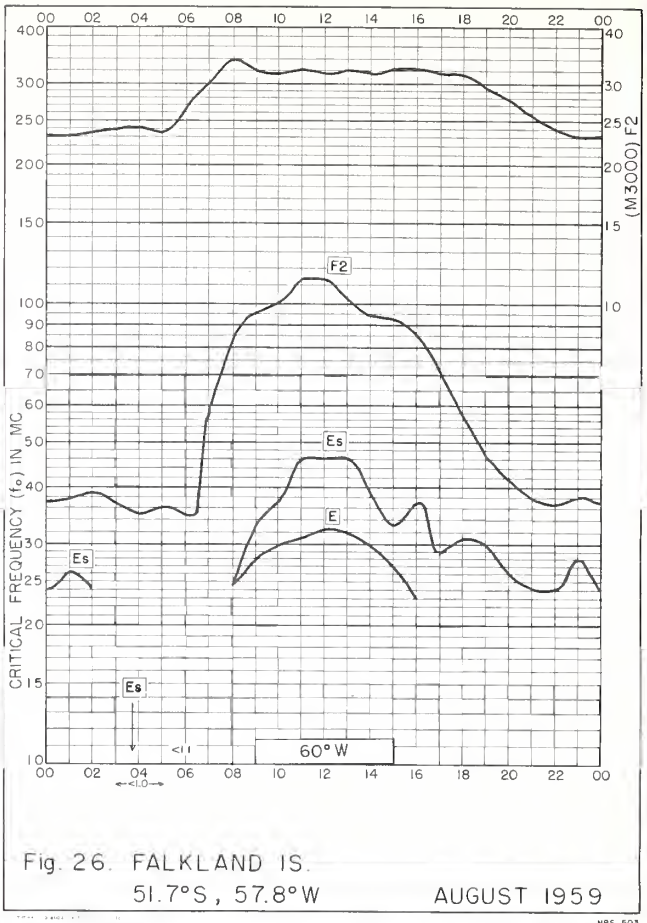

Fig. 26. FALKLAND IS.
51.7°S, 57.8°W AUGUST 1959

NBS 503

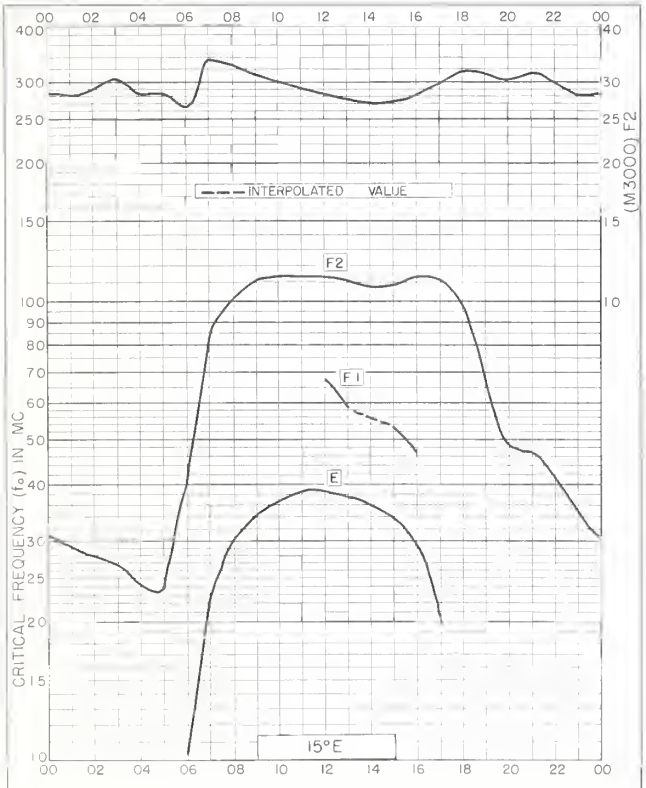

Fig. 27. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E JUNE 1959

NBS 503

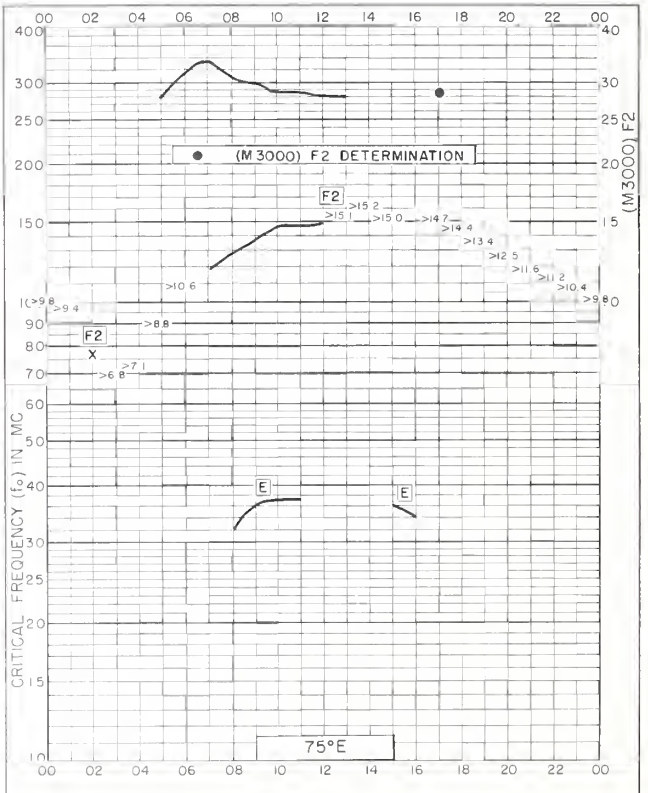

Fig. 28. DELHI, INDIA
28.6°N, 77.2°E APRIL 1959

NBS 503

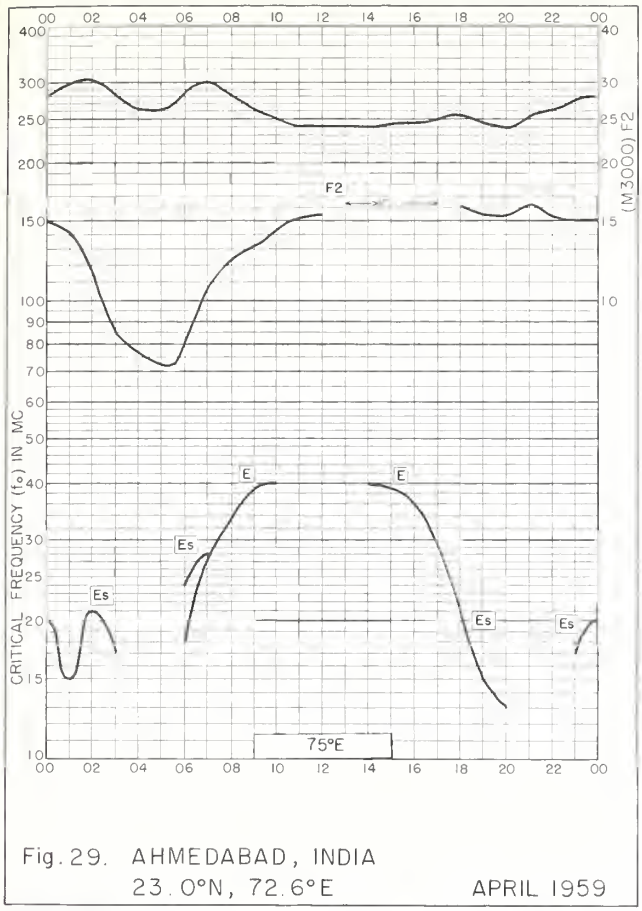

Fig. 29. AHMEDABAD, INDIA
23.0°N, 72.6°E APRIL 1959

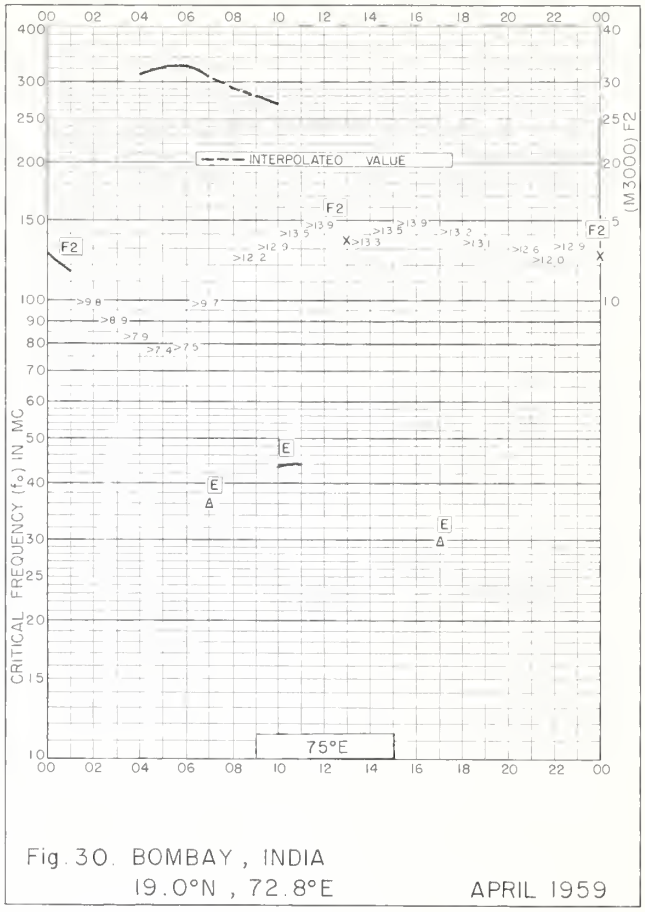

Fig. 30. BOMBAY, INDIA
19.0°N, 72.8°E APRIL 1959

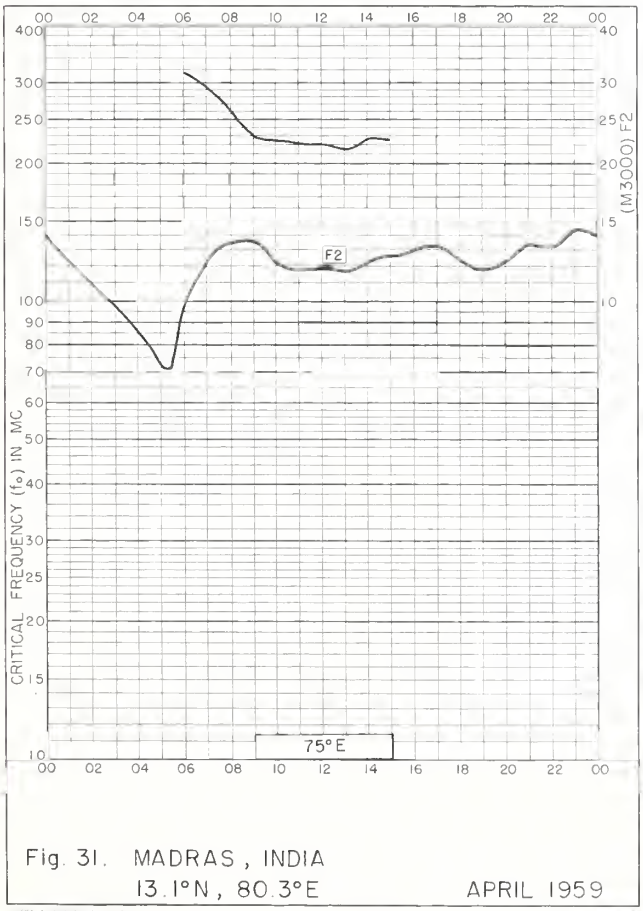

Fig. 31. MADRAS, INDIA
13.1°N, 80.3°E APRIL 1959

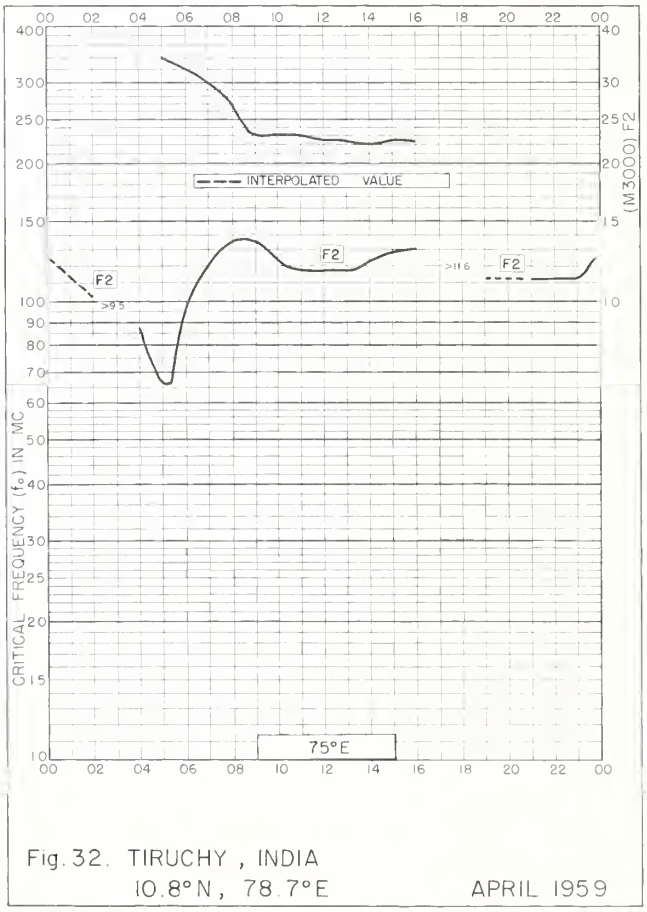

Fig. 32. TIRUCHY, INDIA
10.8°N, 78.7°E APRIL 1959

Fig. 33. KODAIKANAL, INDIA
10.2°N, 77.5°E APRIL 1959

NBS 503

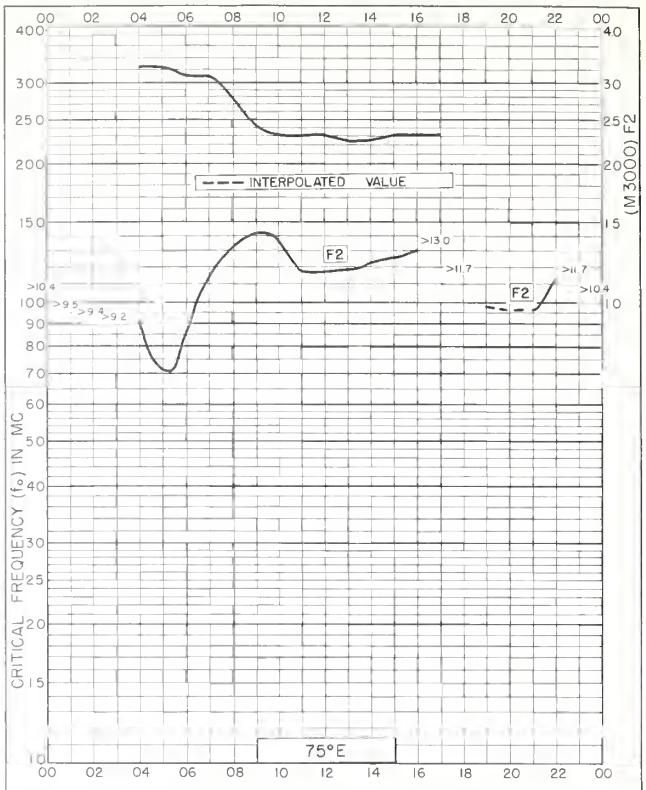

Fig. 34. TRIVANDRUM, INDIA
8.5°N, 77.0°E APRIL 1959

NBS 503

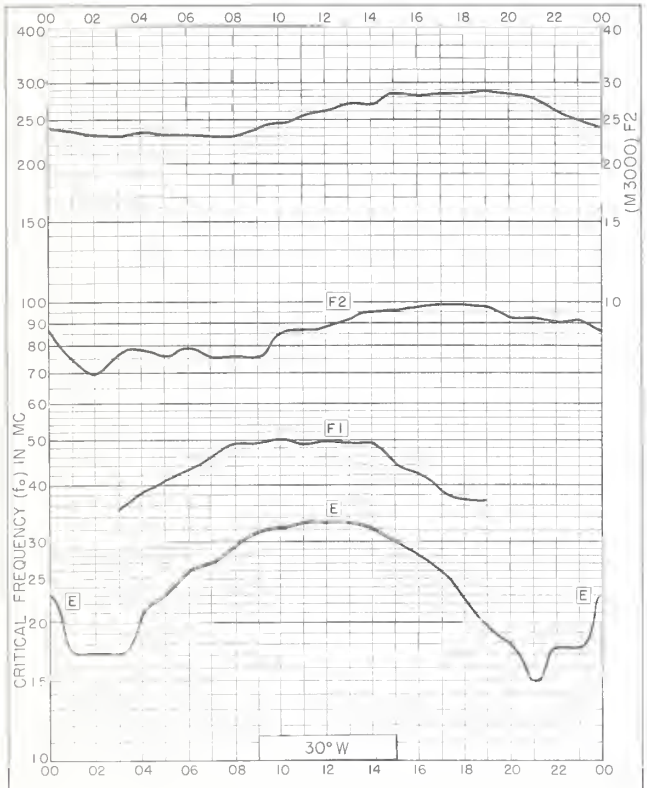

Fig. 35. HALLEY BAY
75.5°S, 26.6°W OCTOBER 1958

NBS 503

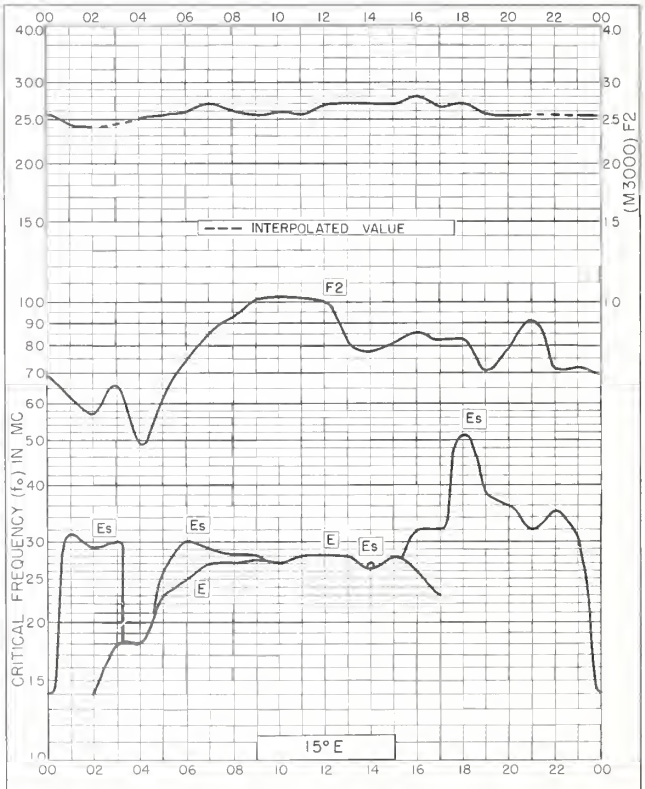

Fig. 36. SVALBARD, NORWAY
78.2°N, 15.7°E SEPTEMBER 1958

NBS 503

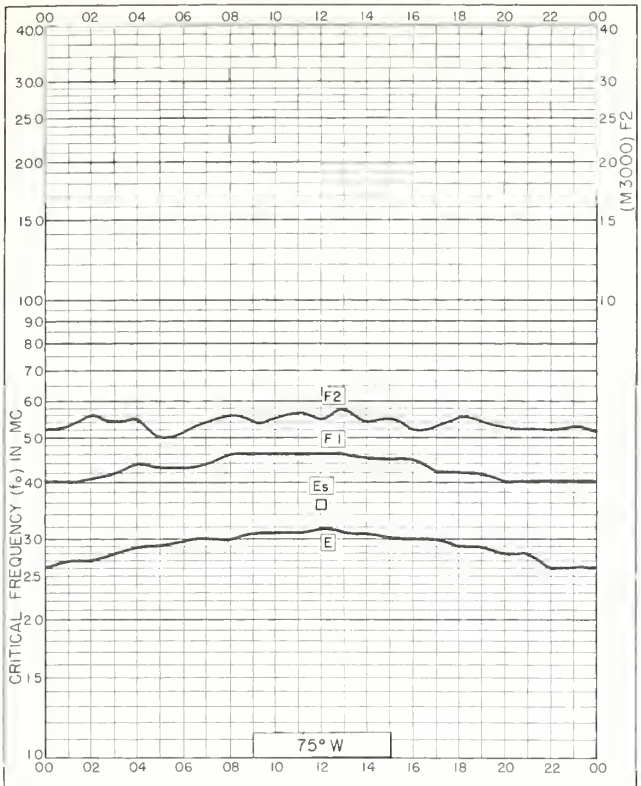

Fig. 37. ALERT, CANADA
82.6°N, 62.6°W JULY 1958

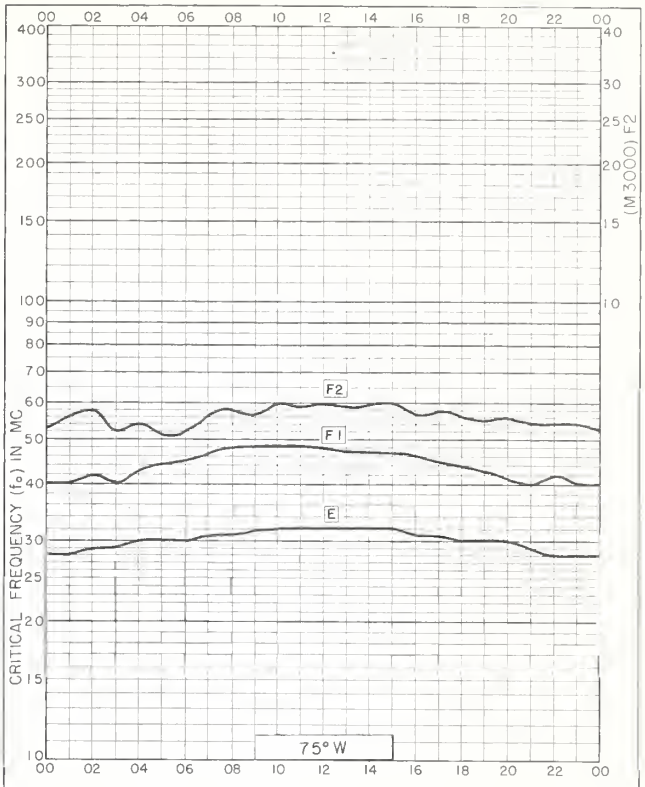

Fig. 38. ALERT, CANADA
82.6°N, 62.6°W JUNE 1958

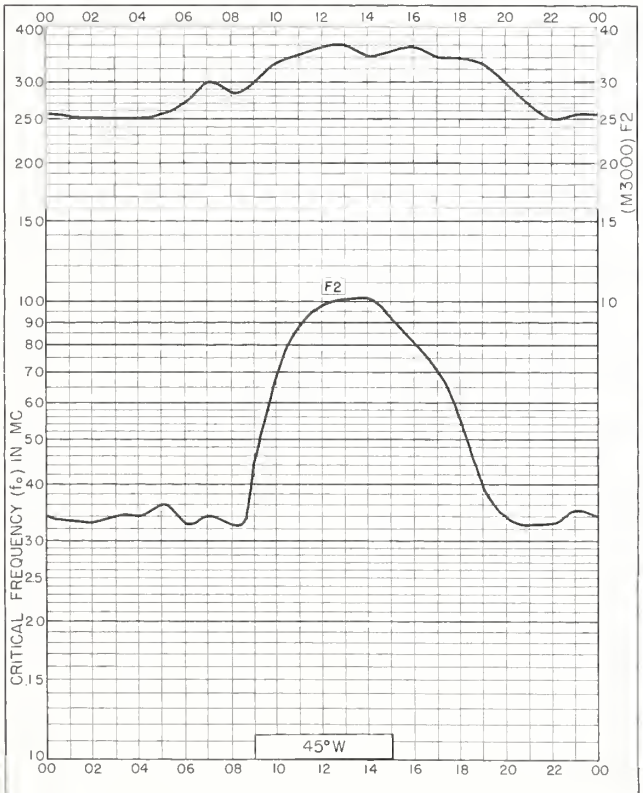

Fig. 39. DECEPCION I.
63.0°S, 60.7°W JUNE 1958

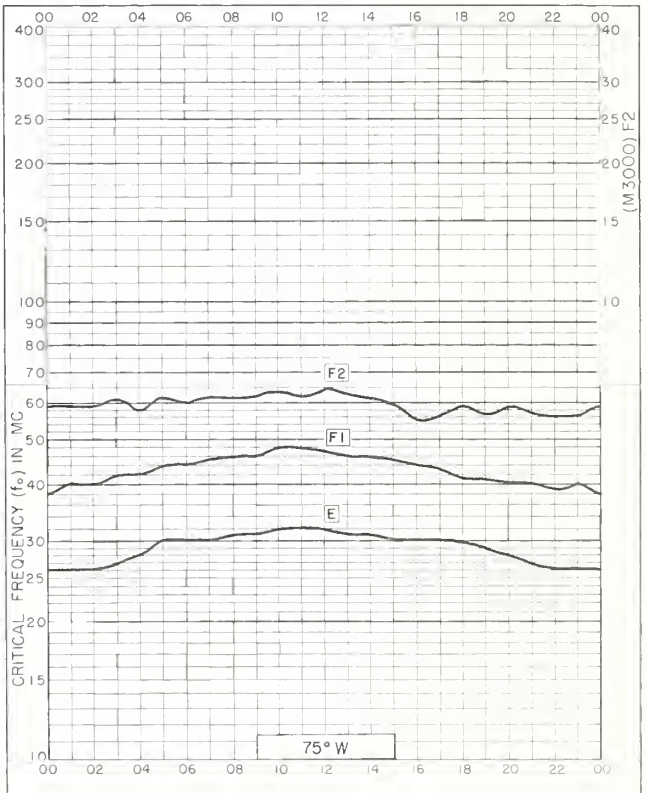

Fig. 40. ALERT, CANADA
82.6°N, 62.6°W MAY 1958

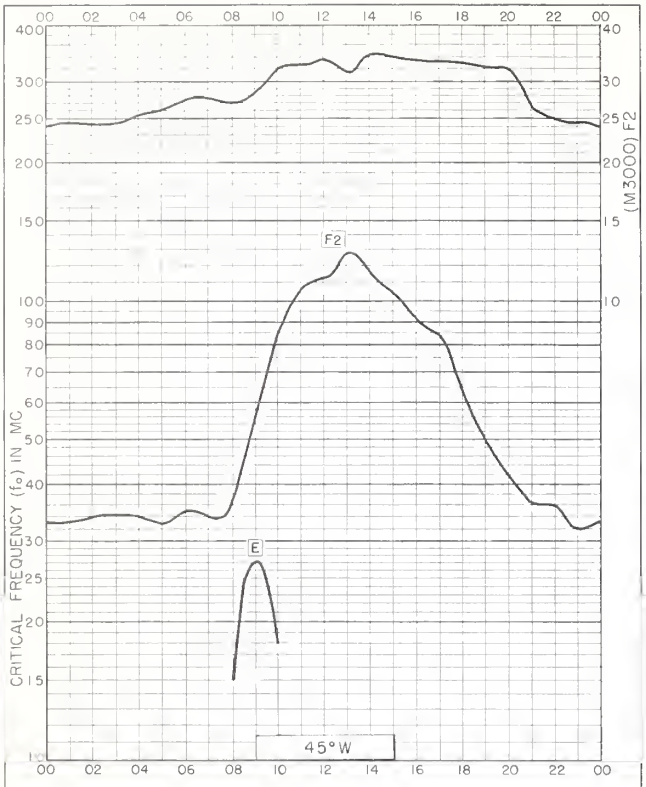

Fig. 41. DECEPCION I.
63.0°S, 60.7°W MAY 1958

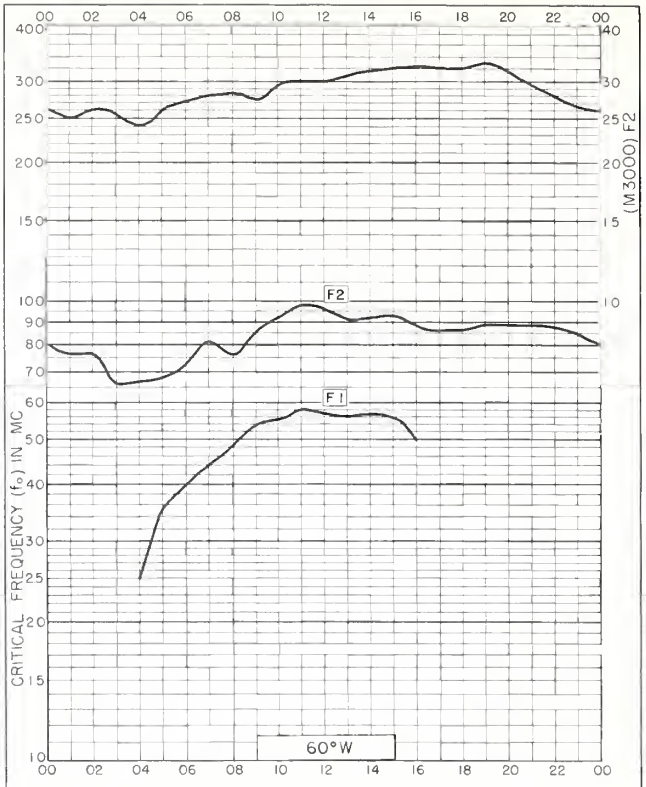

Fig. 42. DECEPCION I.
63.0°S, 60.7°W FEBRUARY 1958

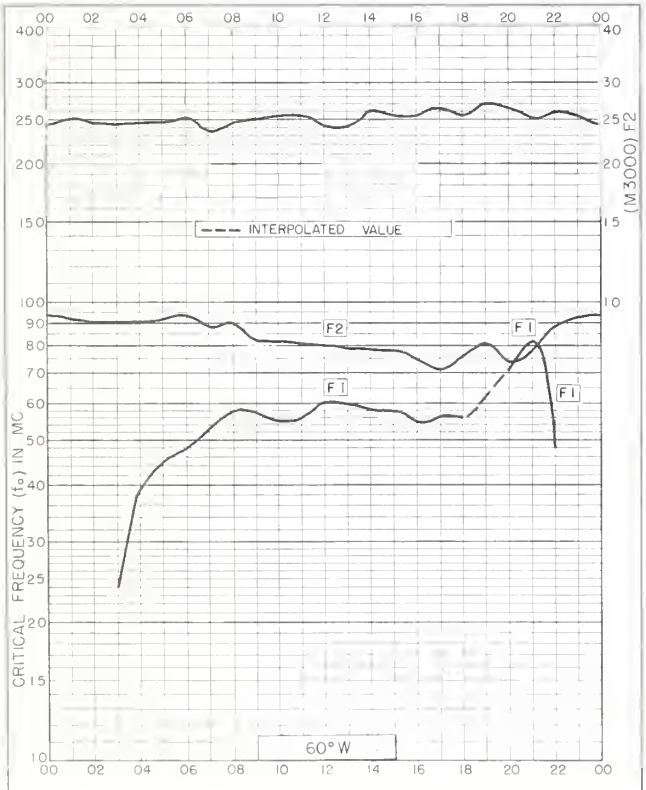

Fig 43. DECEPCION I.
63.0°S, 60.7°W JANUARY 1958

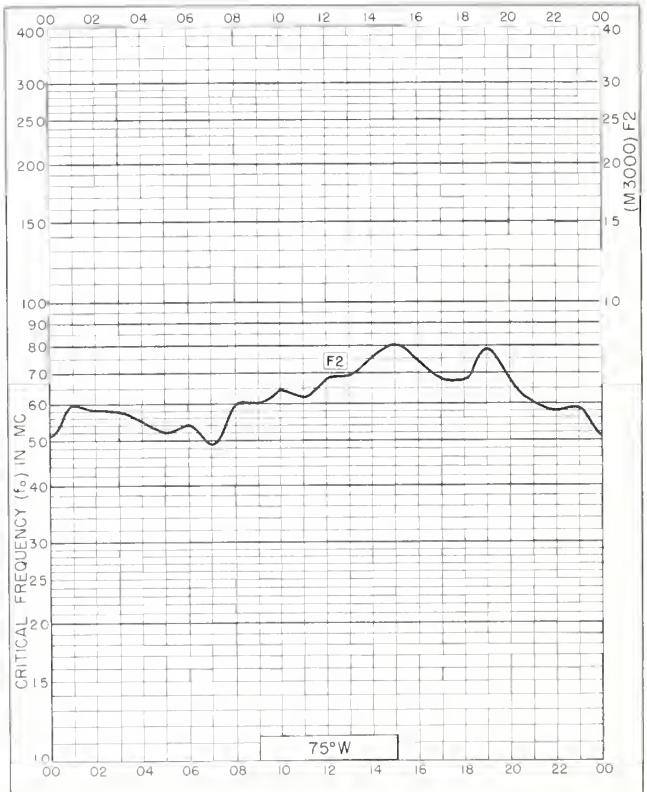

Fig. 44. ALERT, CANADA
82.6°N, 62.6°W DECEMBER 1957

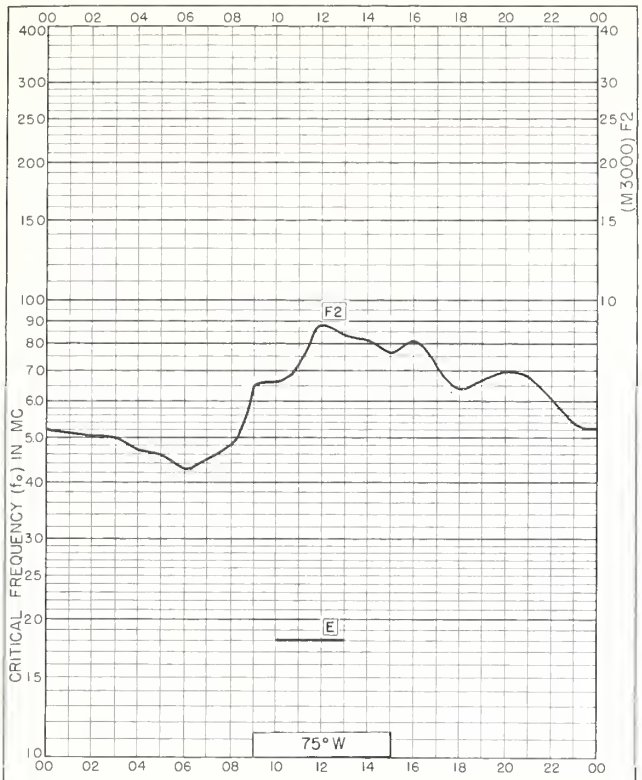

Fig. 45. CLYDE, BAFFIN I.
70.5°N, 68.6°W DECEMBER 1957

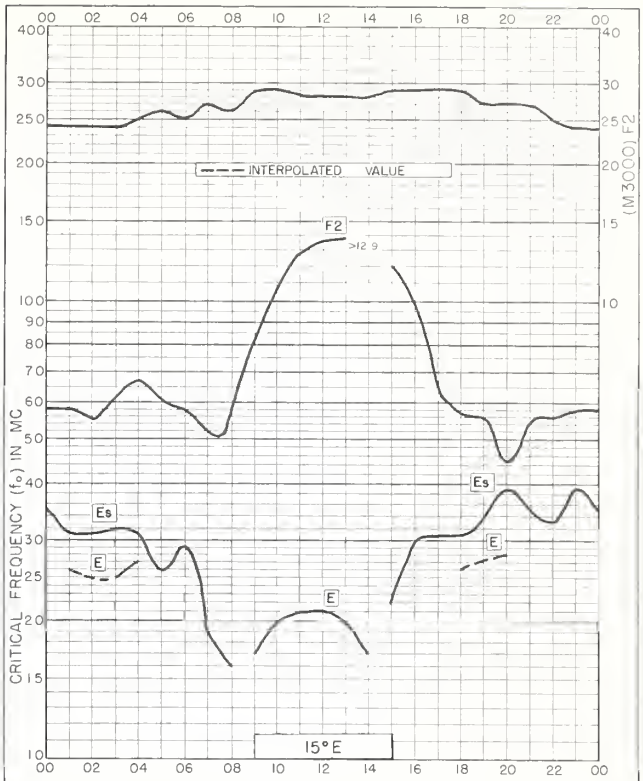

Fig. 46. LULEA, SWEDEN
65.6°N, 22.1°E DECEMBER 1957

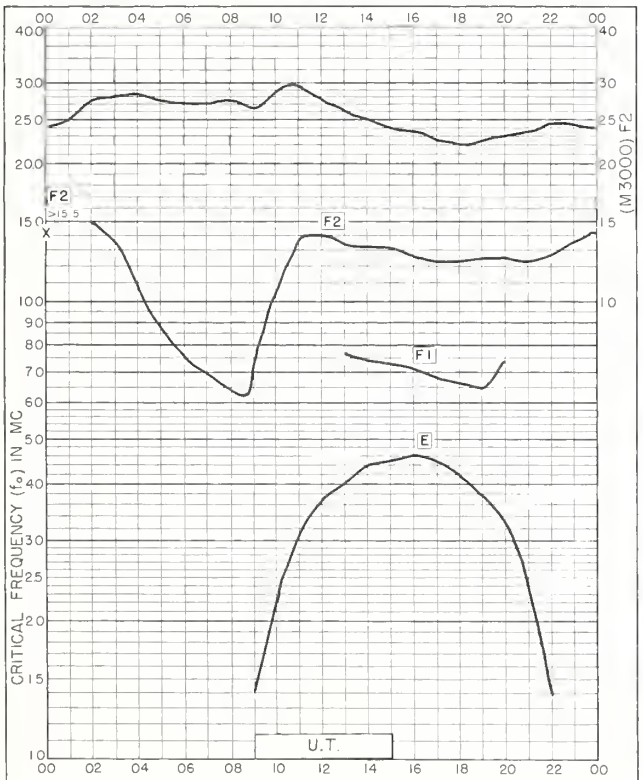

Fig. 47. PARAMARIBO, SURINAM
5.8°N, 55.2°W DECEMBER 1957

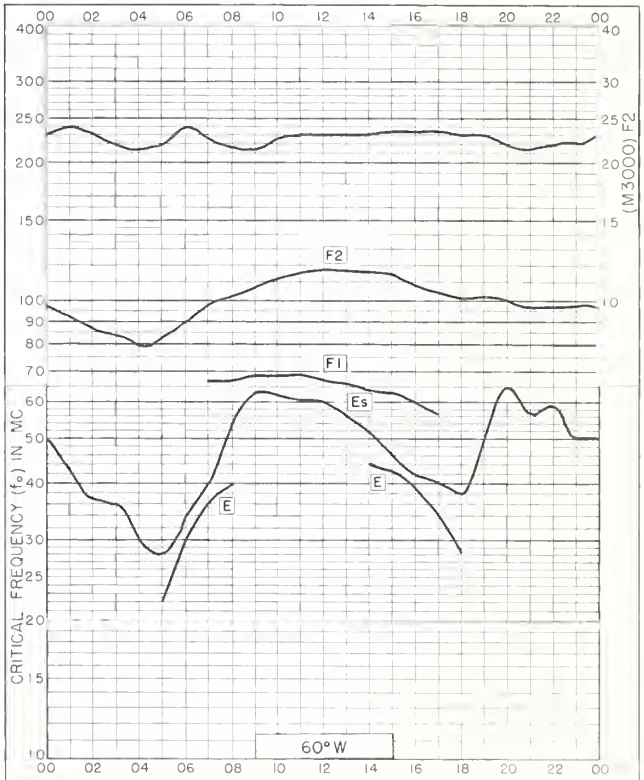

Fig. 48. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W DECEMBER 1957

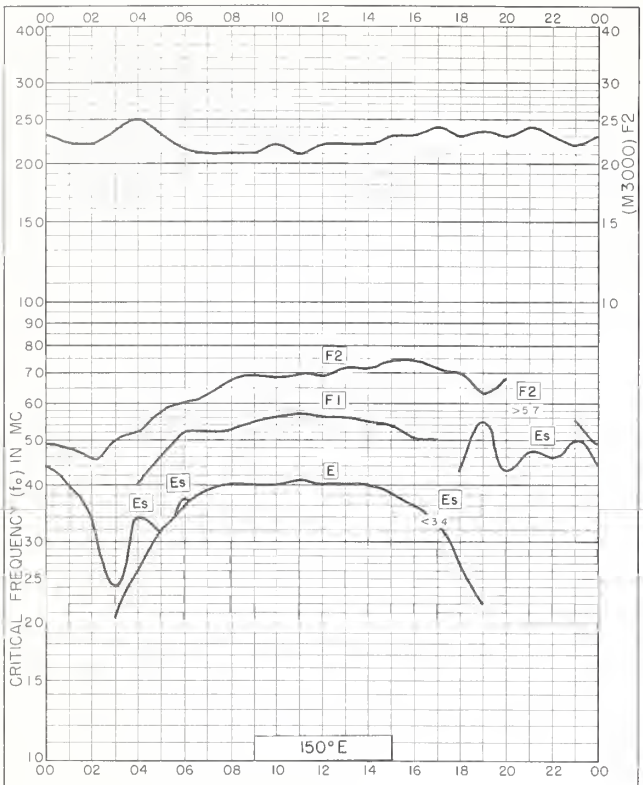

Fig. 49. MACQUARIE I.
54.5°S, 159.0°E DECEMBER 1957

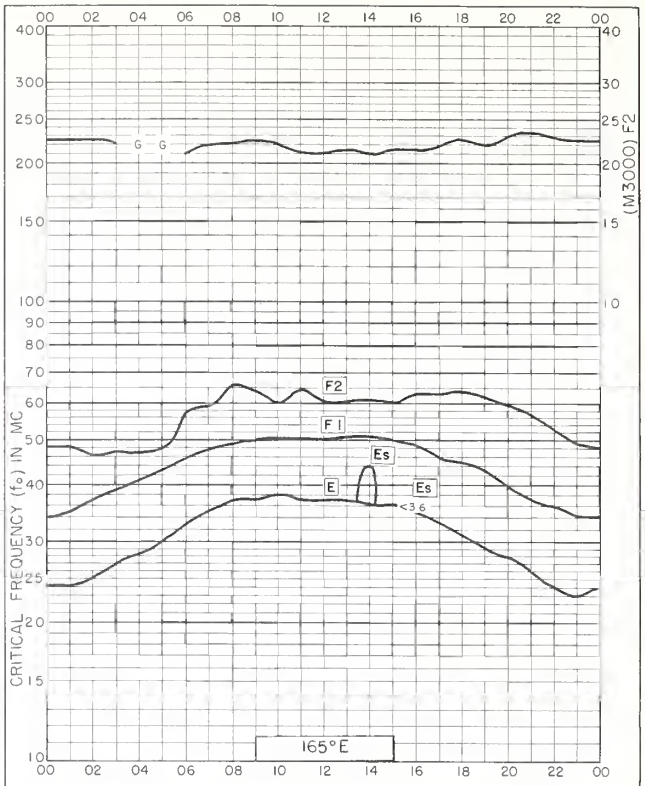

Fig. 50. CAPE HALLETT
72.3°S, 170.3°E DECEMBER 1957

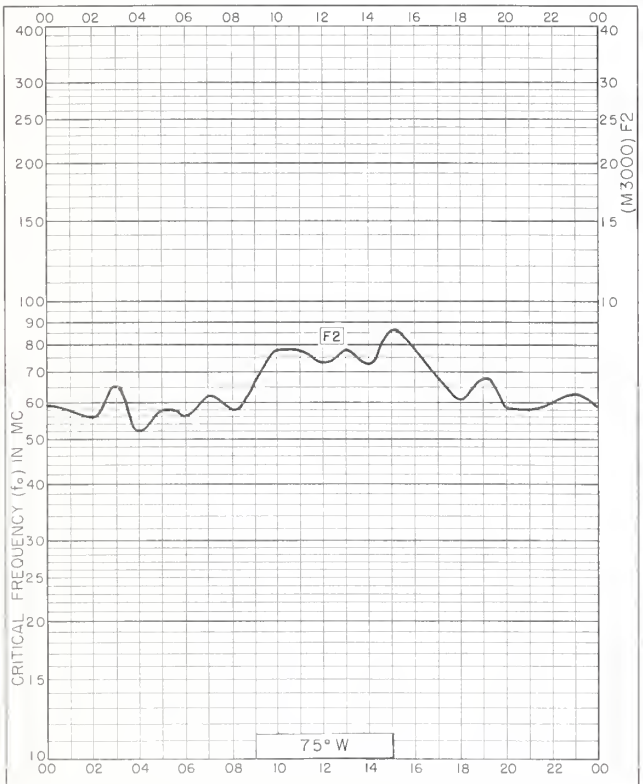

Fig. 51. ALERT, CANADA
82.6°N, 62.6°W NOVEMBER 1957

Fig. 52. CLYDE, BAFFIN I.
70.5°N, 68.6°W NOVEMBER 1957

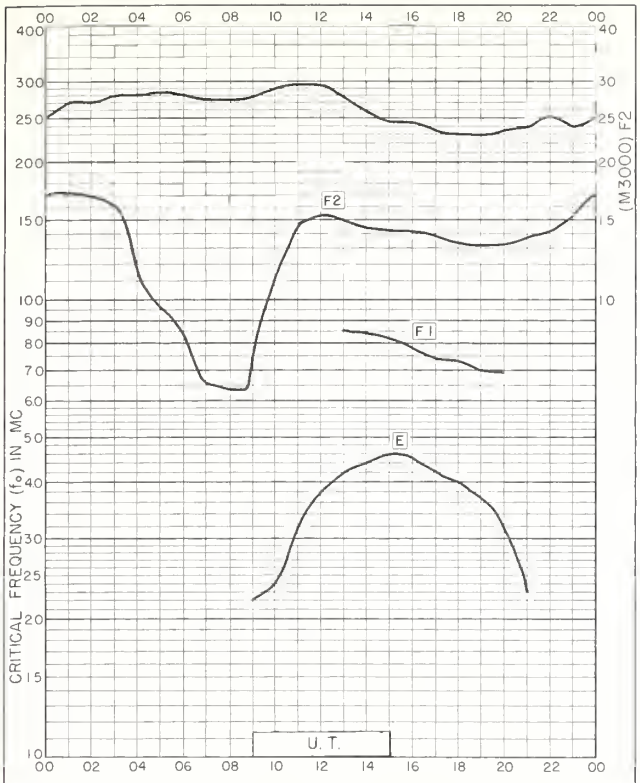

Fig. 53. PARAMARIBO, SURINAM
5.8°N, 55.2°W NOVEMBER 1957

Fig. 54. BUENOS AIRES, ARGENTINA
34.5°S, 58.5°W NOVEMBER 1957

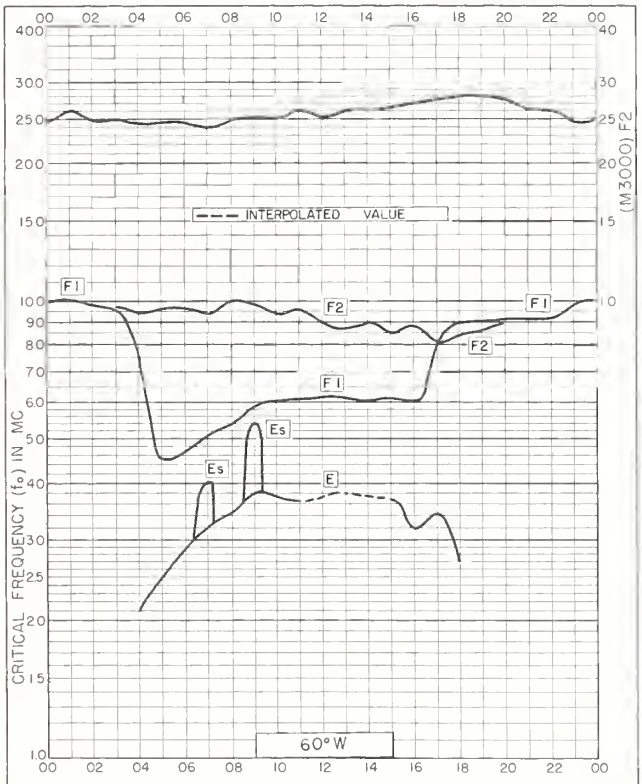

Fig. 55. DECEPCION I.
63.0°S, 60.7°W NOVEMBER 1957

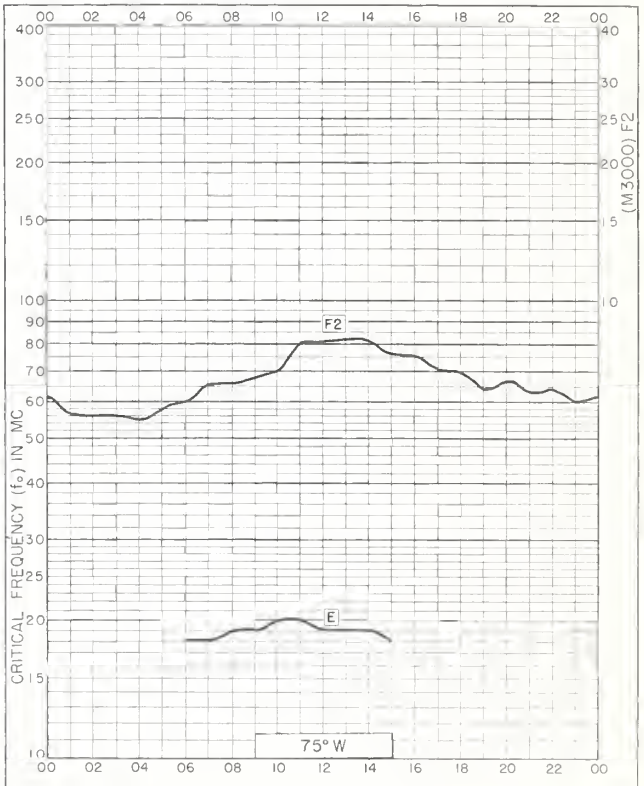

Fig. 56. ALERT, CANADA
82.6°N, 62.6°W OCTOBER 1957

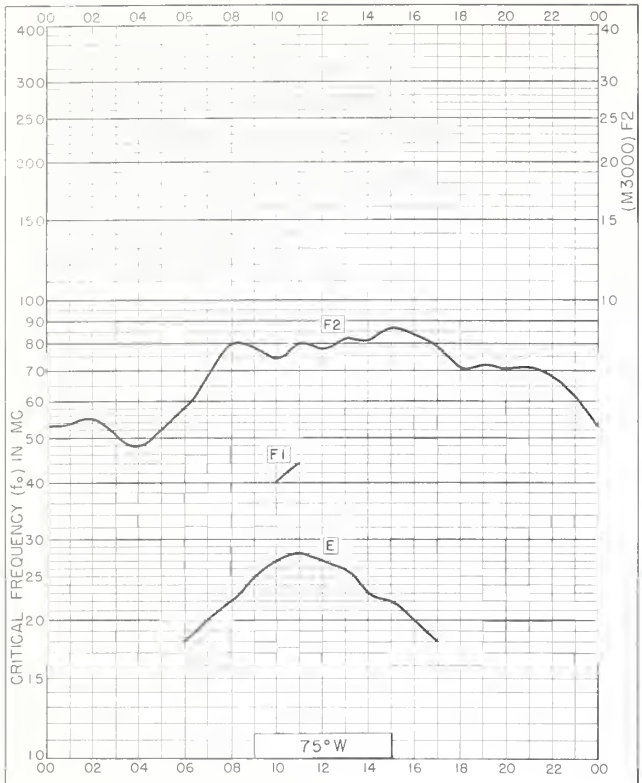

Fig. 57. CLYDE, BAFFIN I.
70.5°N, 68.6°W OCTOBER 1957

NBS 503

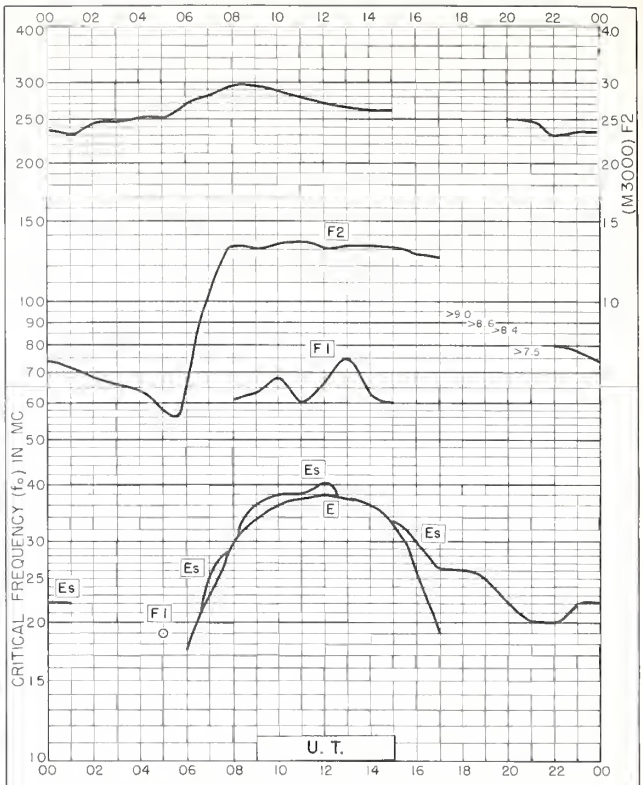

Fig. 58. POITIERS, FRANCE
46.6°N, 0.3°E OCTOBER 1957

NBS 503

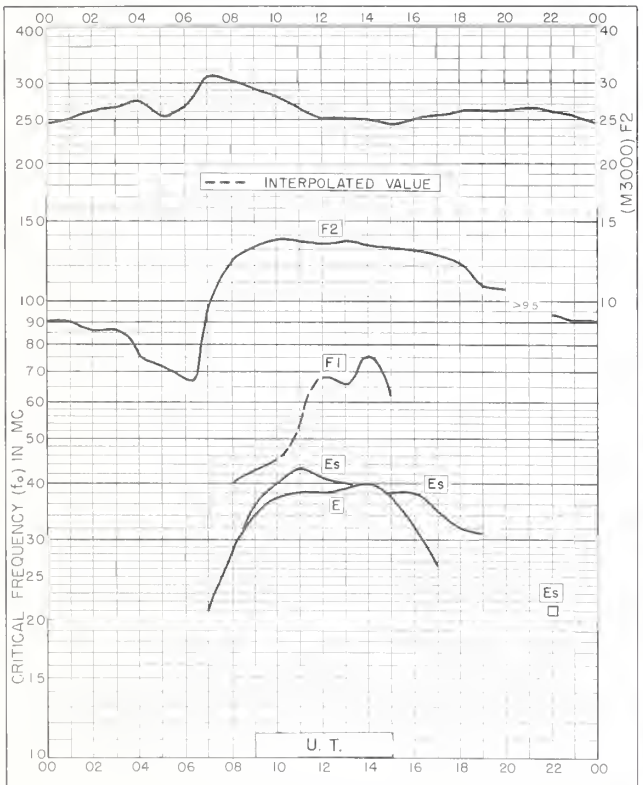

Fig. 59. CASABLANCA, MOROCCO
33.6°N, 7.6°W OCTOBER 1957

NBS 503

Fig 60. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W OCTOBER 1957

NBS 503

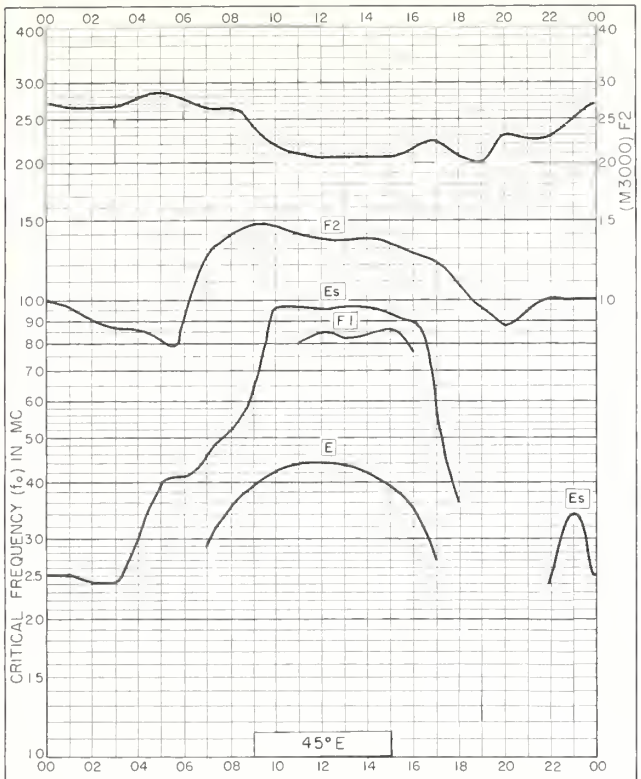

Fig. 61. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E OCTOBER 1957

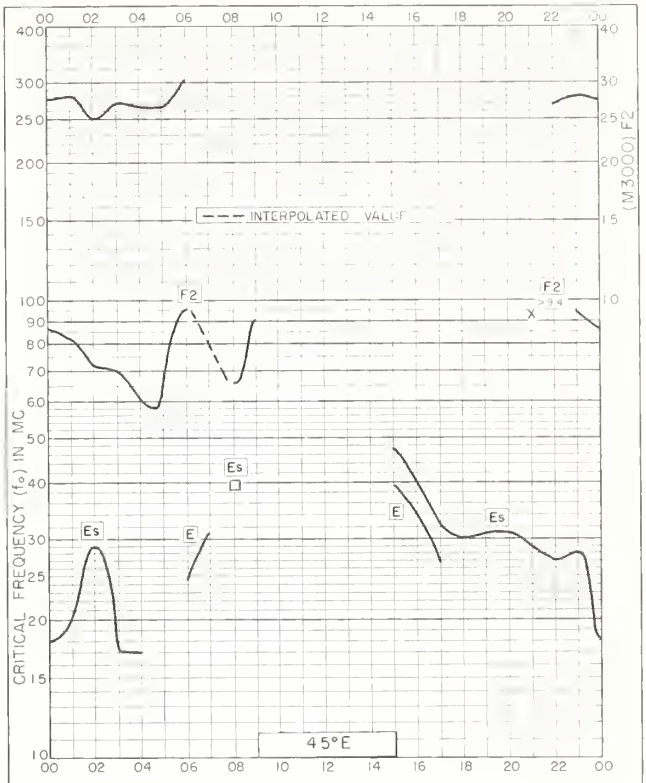

Fig. 62. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E OCTOBER 1957

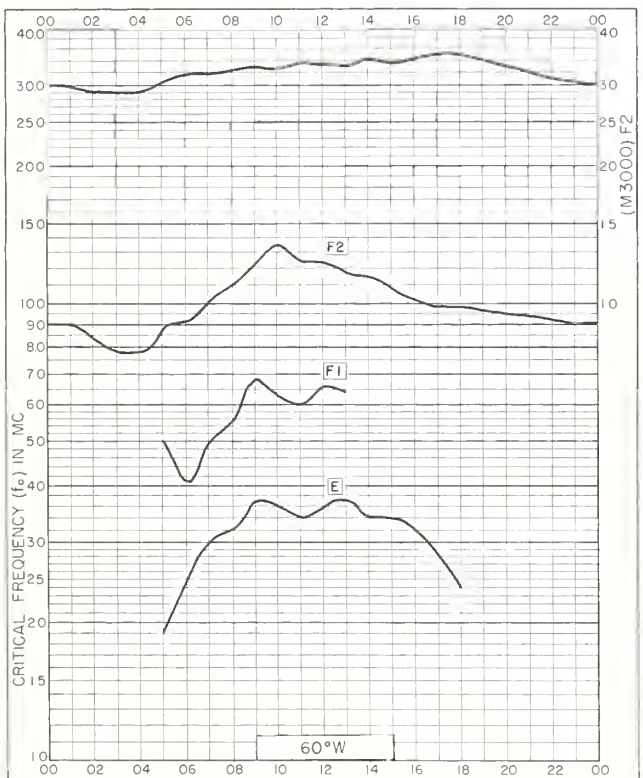

Fig. 63. DECEPCION I.
63.0°S, 60.7°W OCTOBER 1957

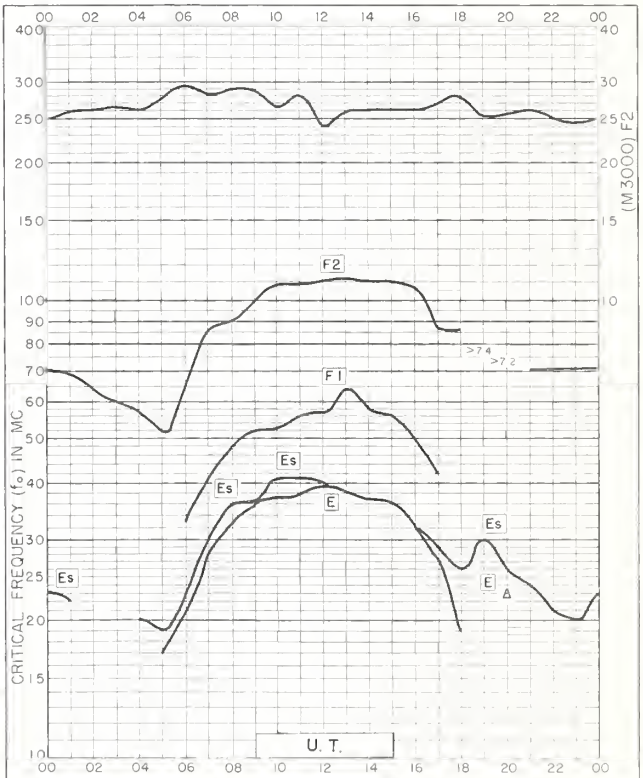

Fig. 64. POITIERS, FRANCE
46.6°N, 0.3°E SEPTEMBER 1957

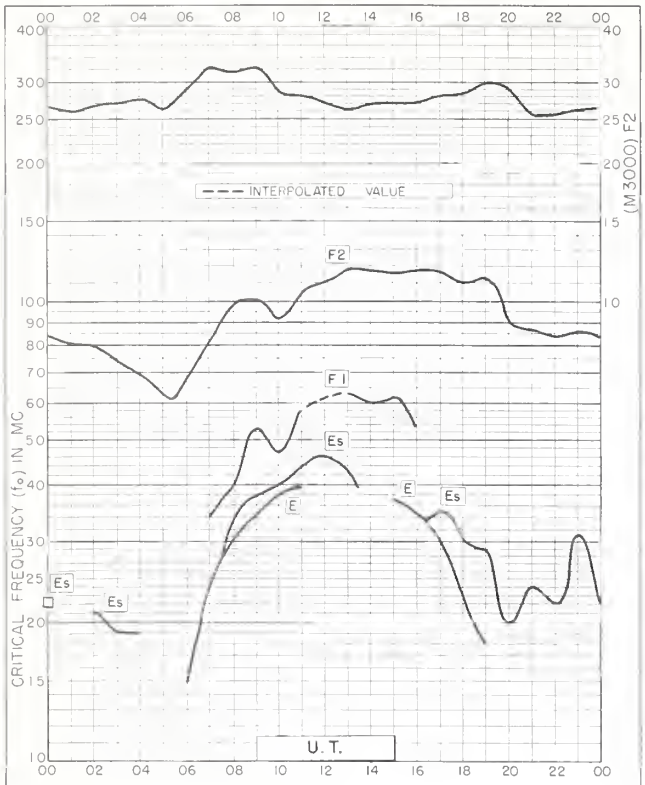

Fig. 65. CASABLANCA, MOROCCO
33.6°N, 7.6°W SEPTEMBER 1957

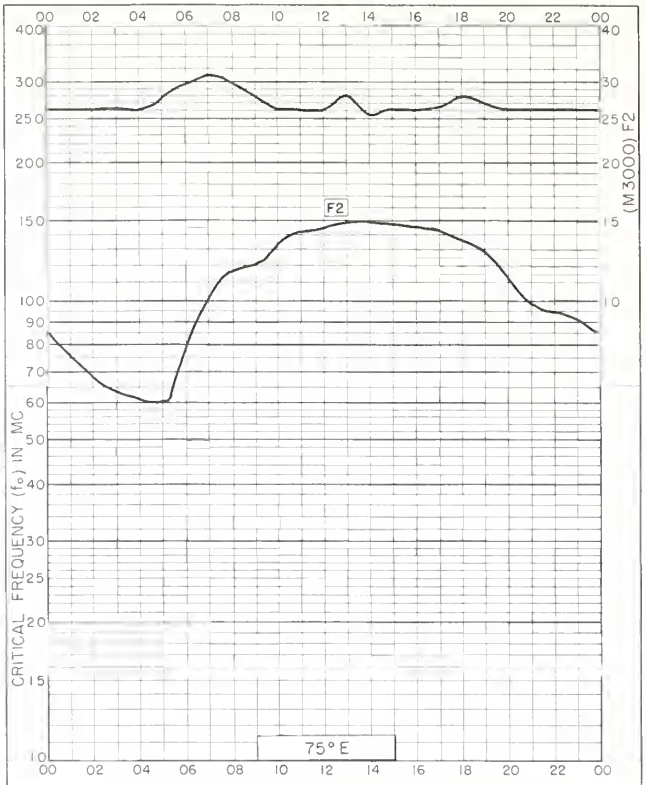

Fig. 66. DELHI, INDIA
28.6°N, 77.2°E SEPTEMBER 1957

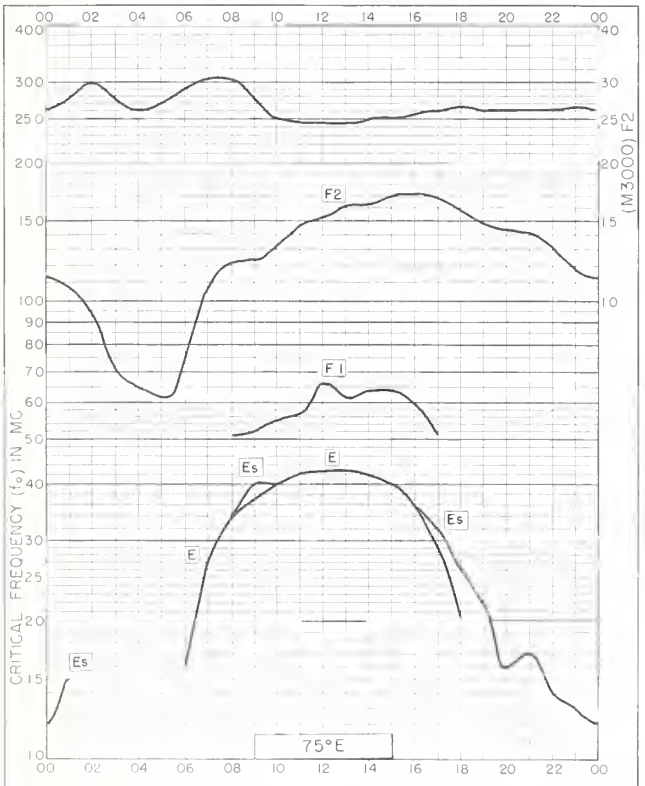

Fig. 67. AHMEDABAD, INDIA
23.0°N, 72.6°E SEPTEMBER 1957

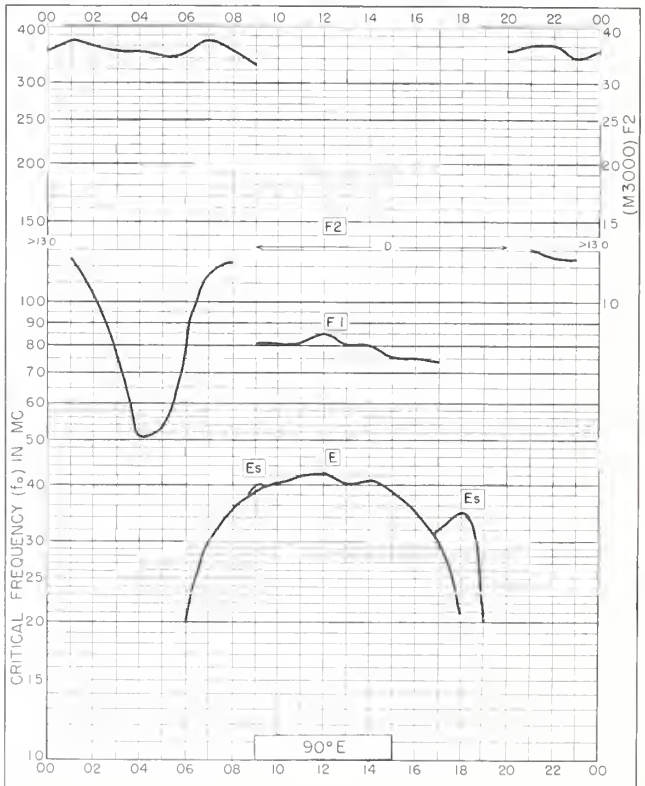

Fig. 68. CALCUTTA, INDIA
23.0°N, 88.6°E SEPTEMBER 1957

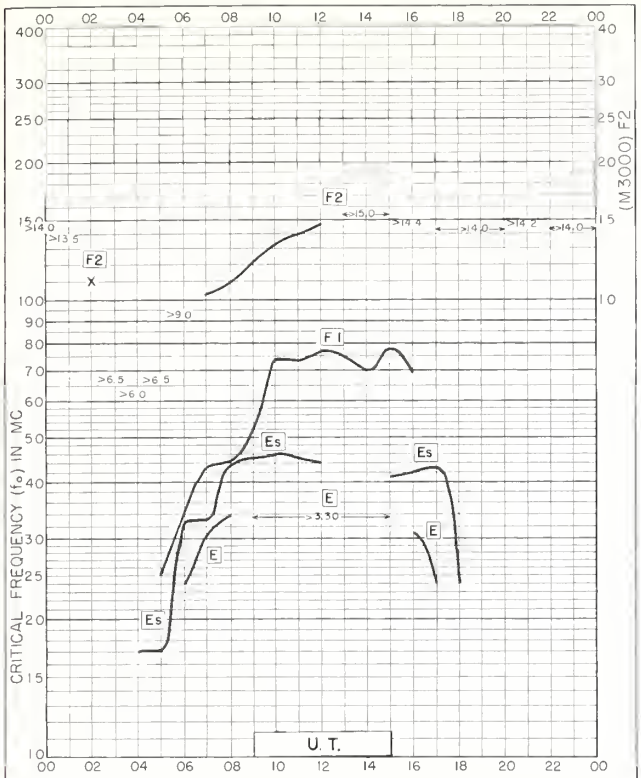

Fig. 69. TAMANRASSET, FRENCH W. AFRICA
22.8°N, 5.5°E SEPTEMBER 1957

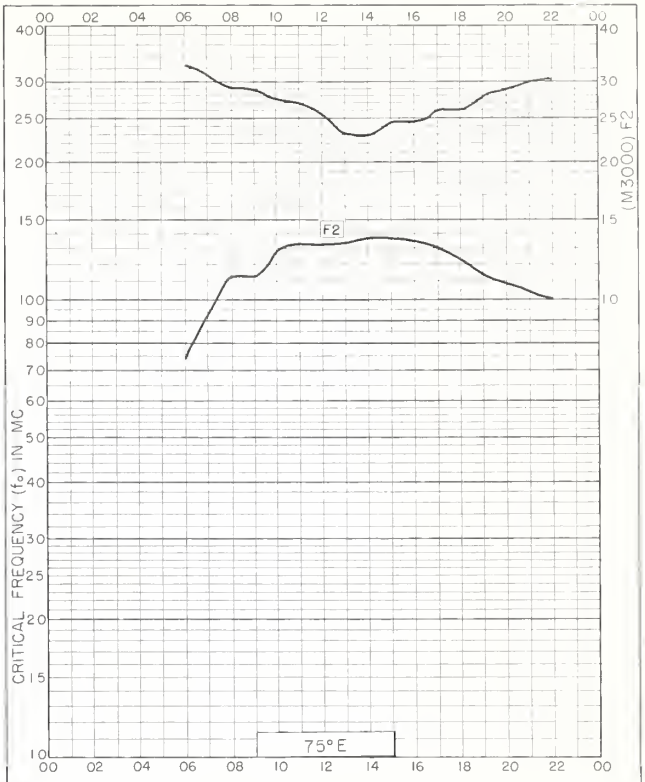

Fig. 70. BOMBAY, INDIA
19.0°N, 72.8°E SEPTEMBER 1957

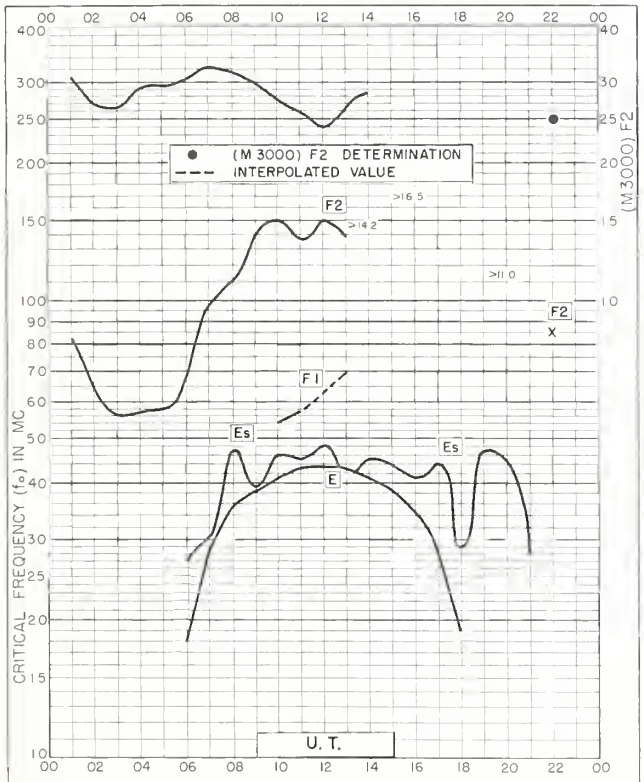

Fig. 71. DAKAR, FRENCH W. AFRICA
14.8°N, 17.4°W SEPTEMBER 1957

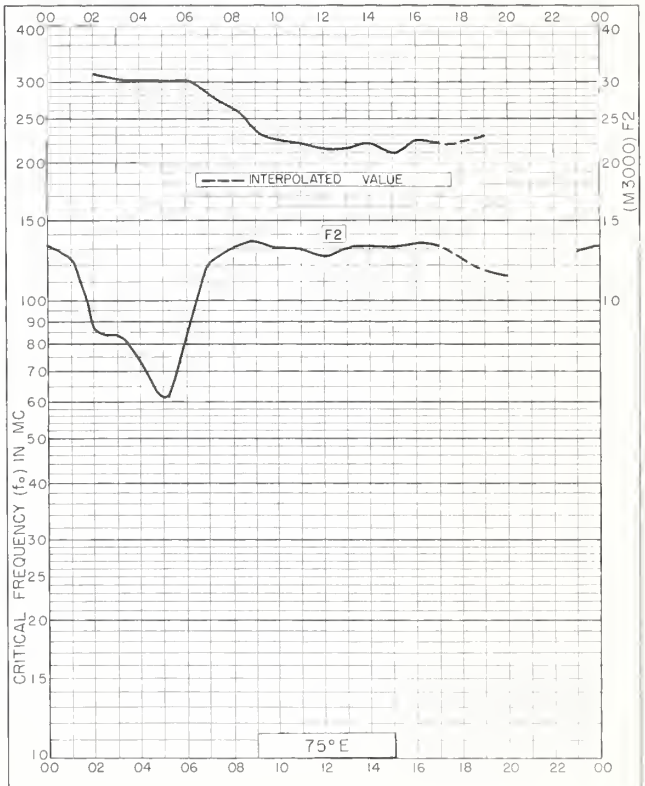

Fig. 72. MADRAS, INDIA
13.1°N, 80.3°E SEPTEMBER 1957

Fig. 73. DJIBOUTI, FRENCH SOMALILAND
11.6°N, 43.2°E SEPTEMBER 1957

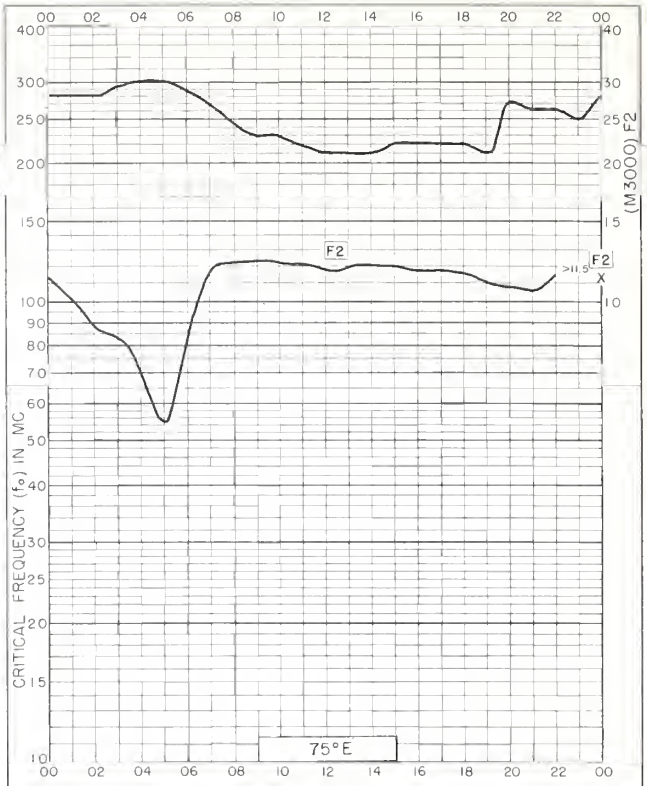

Fig. 74. TIRUCHY, INDIA
10.8°N, 78.7°E SEPTEMBER 1957

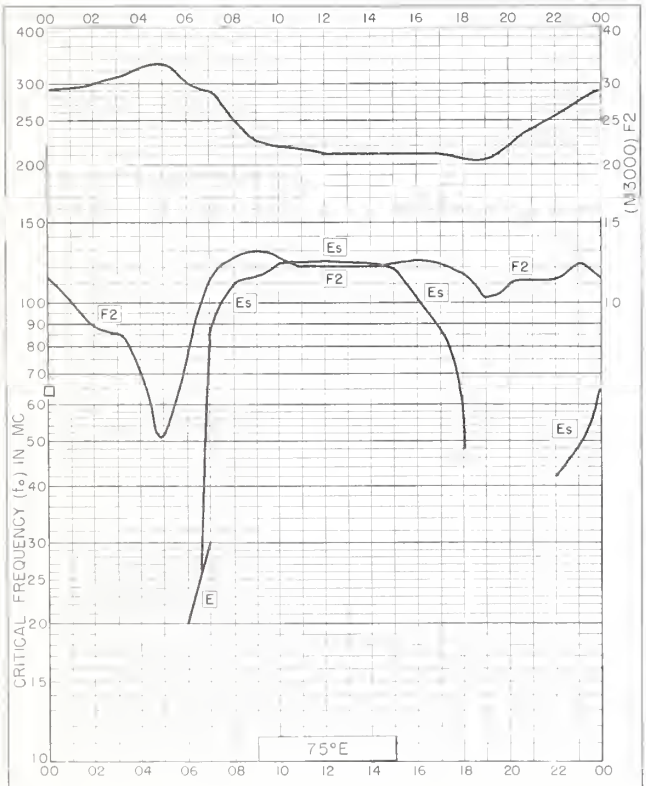

Fig. 75. KODAIKANAL, INDIA
10.2°N, 77.5°E SEPTEMBER 1957

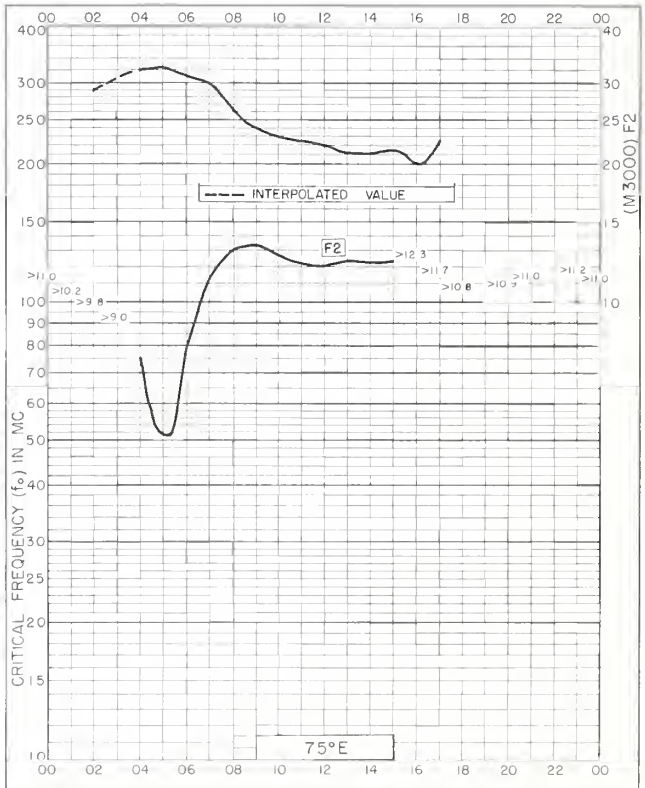

Fig. 76. TRIVANDRUM, INDIA
8.5°N, 77.0°E SEPTEMBER 1957

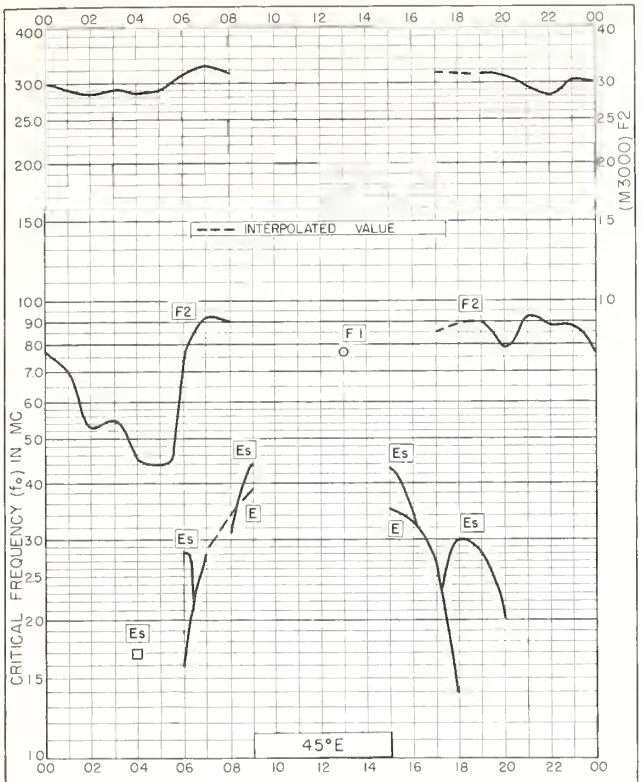

Fig. 77. TANANARIVE, MADAGASCAR
18.8°S, 47.5°E SEPTEMBER 1957

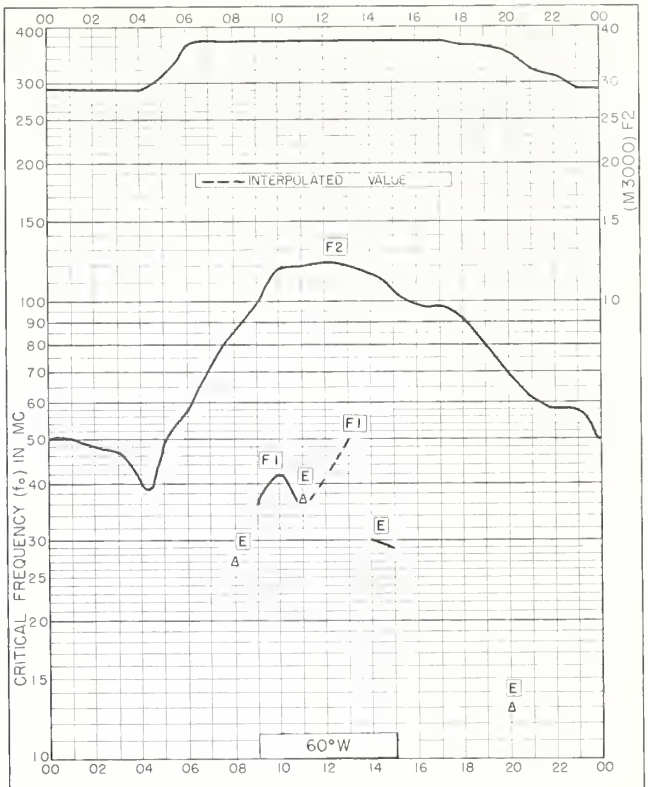

Fig. 78. DECEPCION I.
63.0°S, 60.7°W SEPTEMBER 1957

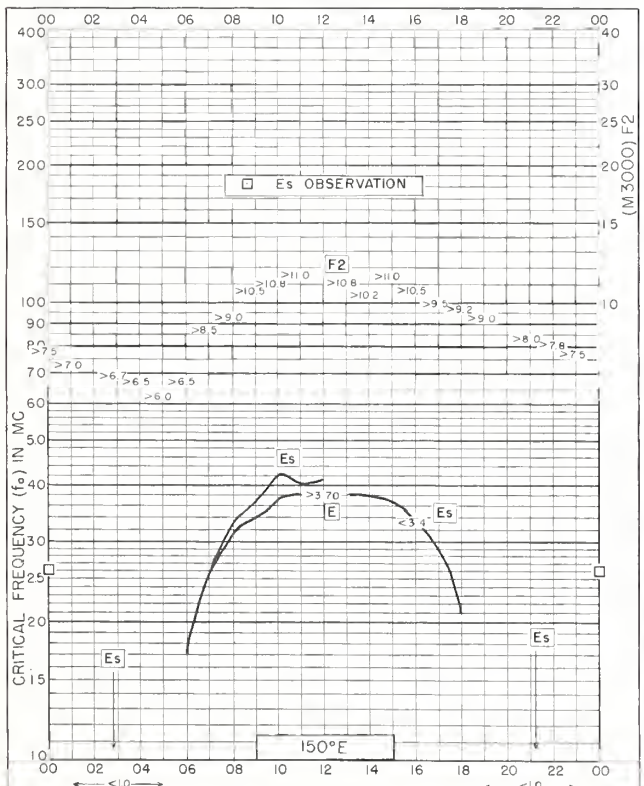

Fig. 79. CANBERRA, AUSTRALIA
35.3°S, 149.0°E MARCH 1957

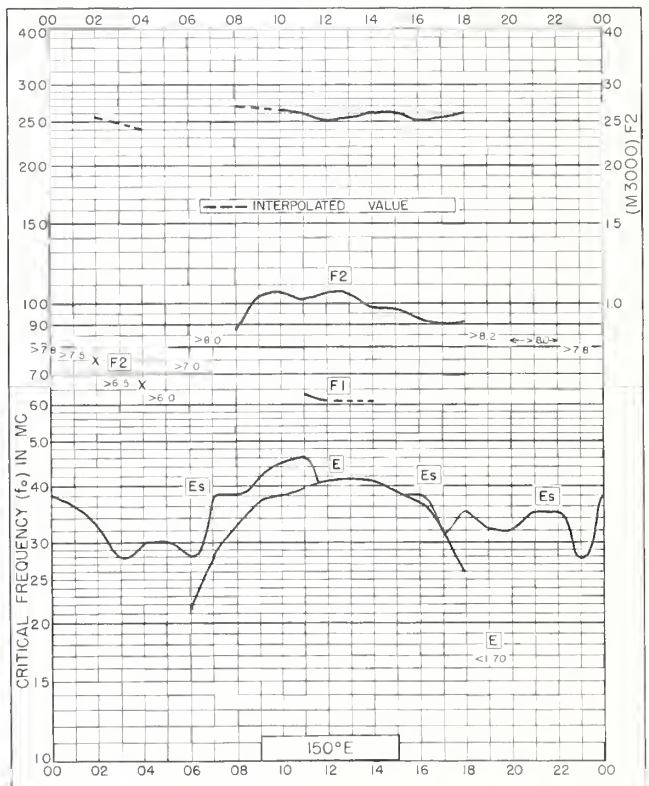

Fig. 80. CANBERRA, AUSTRALIA
35.3°S, 149.0°E FEBRUARY 1957

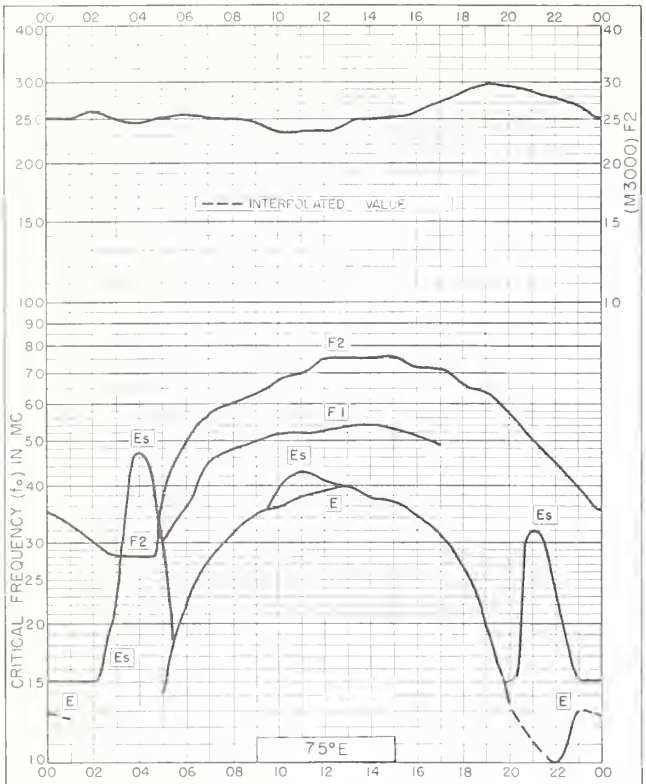

Fig. 81. KERGUELEN I.
49.4°S, 70.3°E FEBRUARY 1957

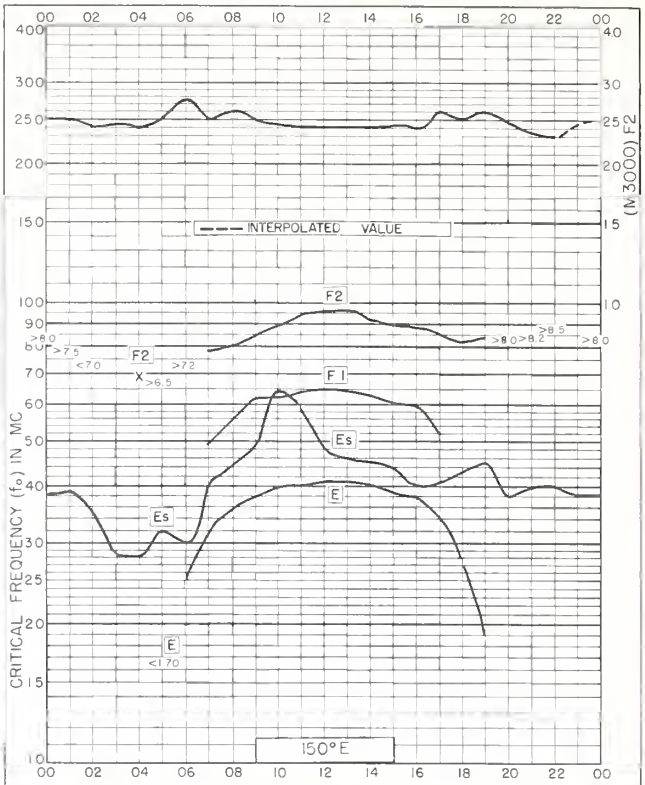

Fig. 82. CANBERRA, AUSTRALIA
35.3°S, 149.0°E JANUARY 1957

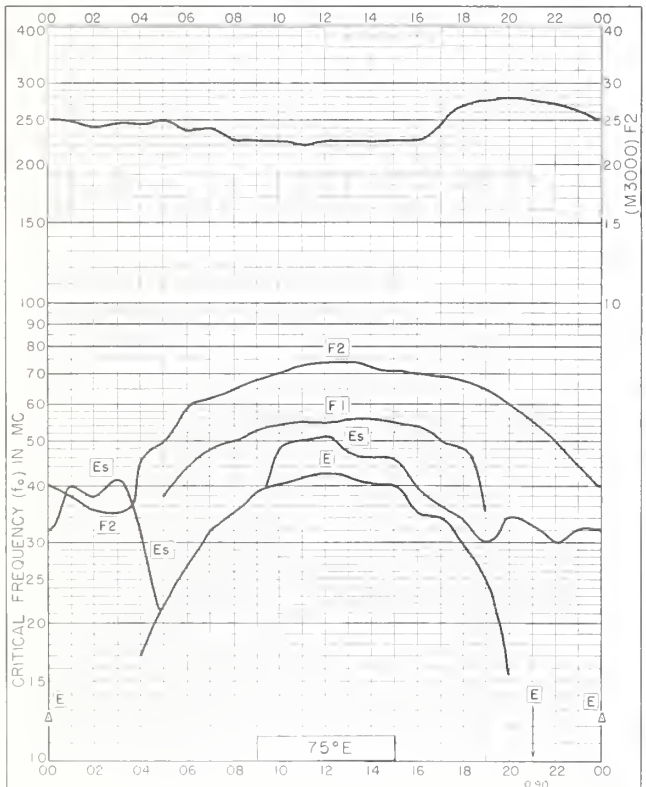

Fig. 83. KERGUELEN I.
49.4°S, 70.3°E JANUARY 1957

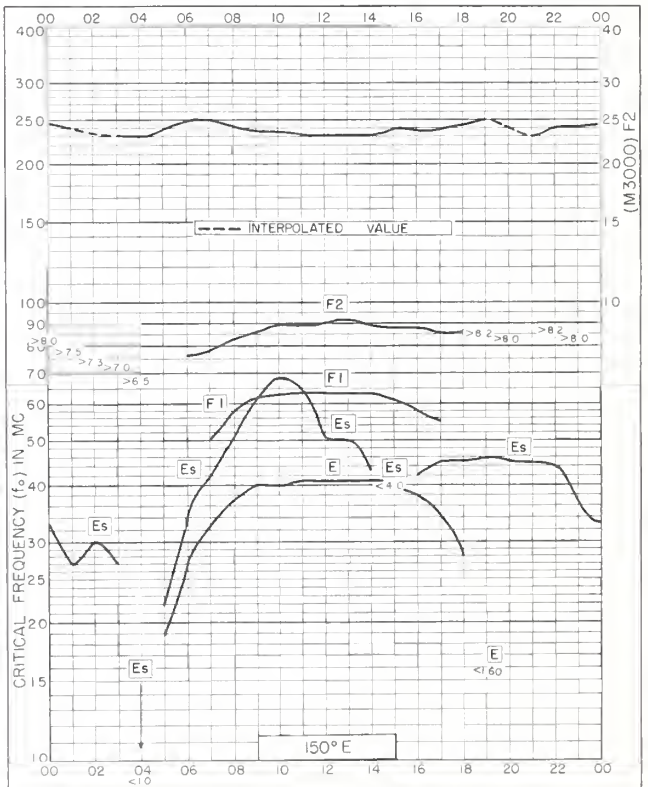

Fig. 84. CANBERRA, AUSTRALIA
35.3°S, 149.0°E DECEMBER 1956

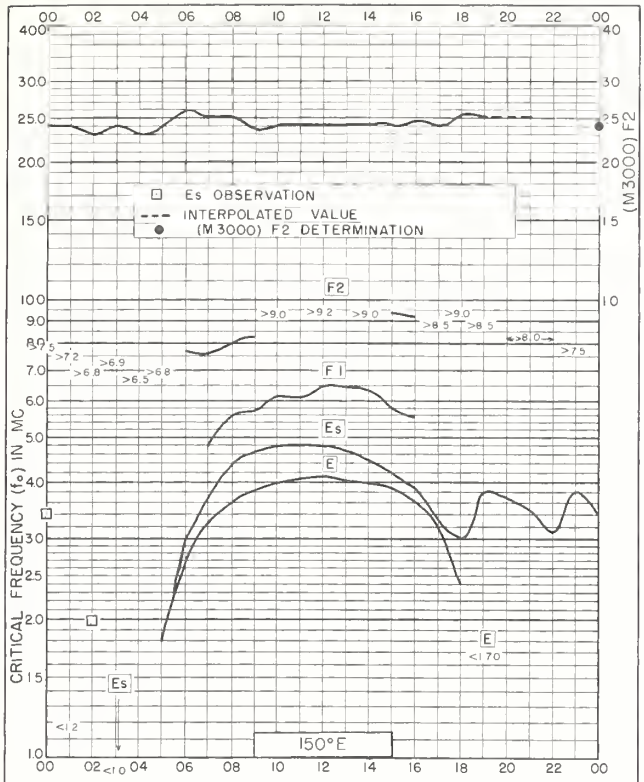

Fig. 85. CANBERRA, AUSTRALIA
35.3°S, 149.0°E NOVEMBER 1956

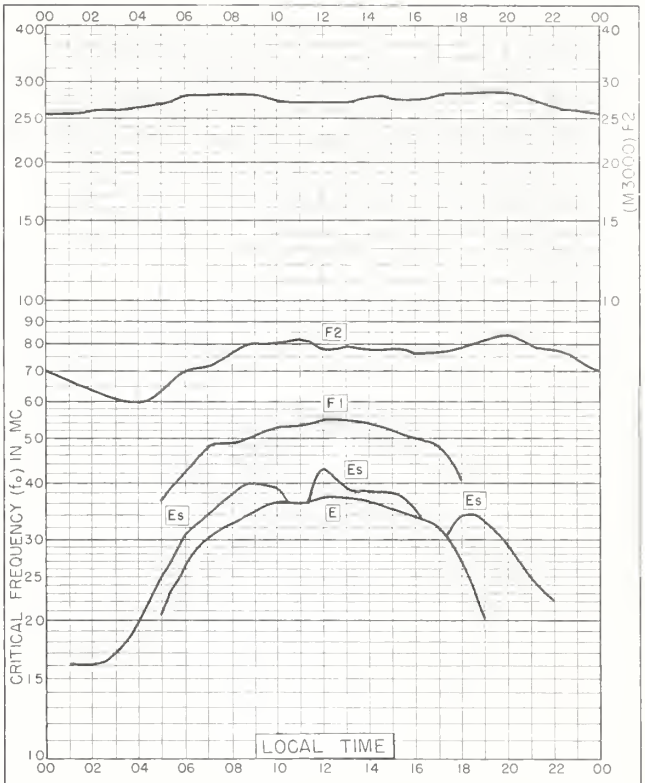

Fig. 86. FREIBURG, GERMANY
48.1°N, 7.8°E JUNE 1956

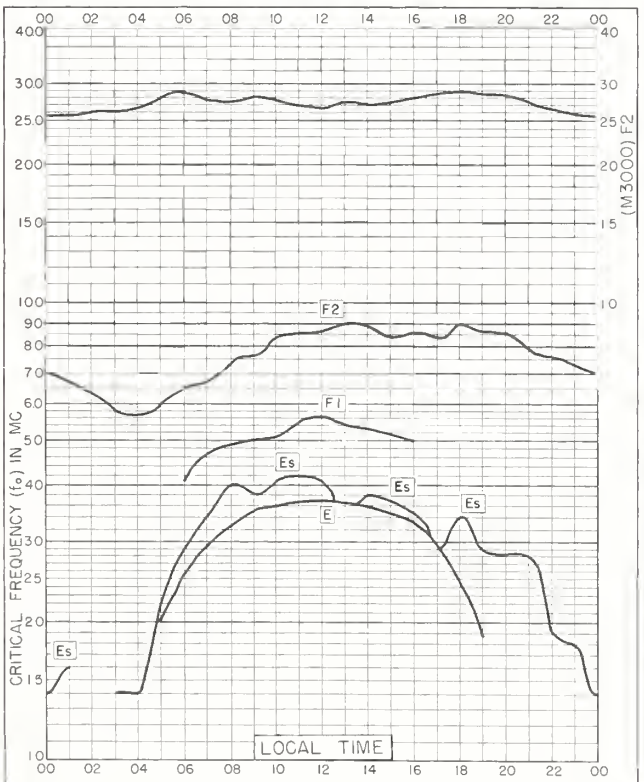

Fig. 87. FREIBURG, GERMANY
48.1°N, 7.8°E MAY 1956

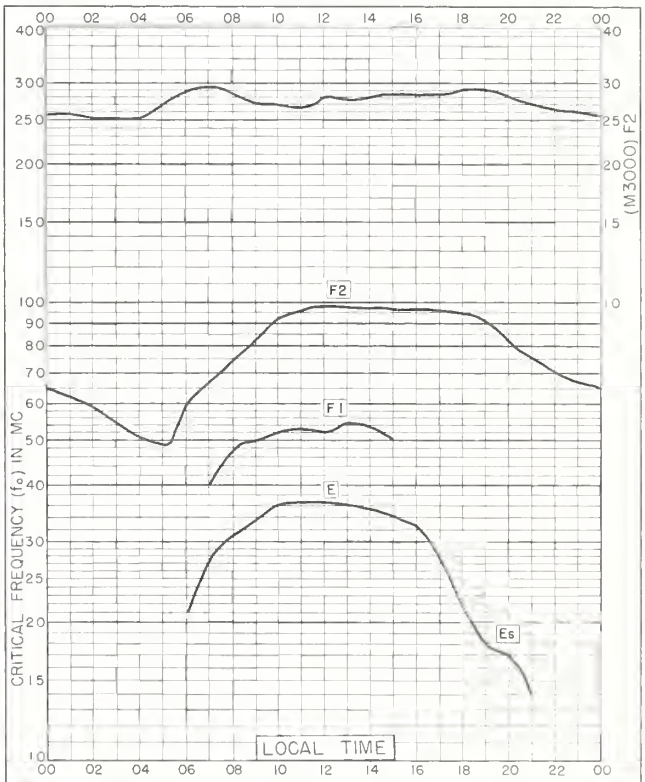

Fig. 88. FREIBURG, GERMANY
48.1°N, 7.8°E APRIL 1956

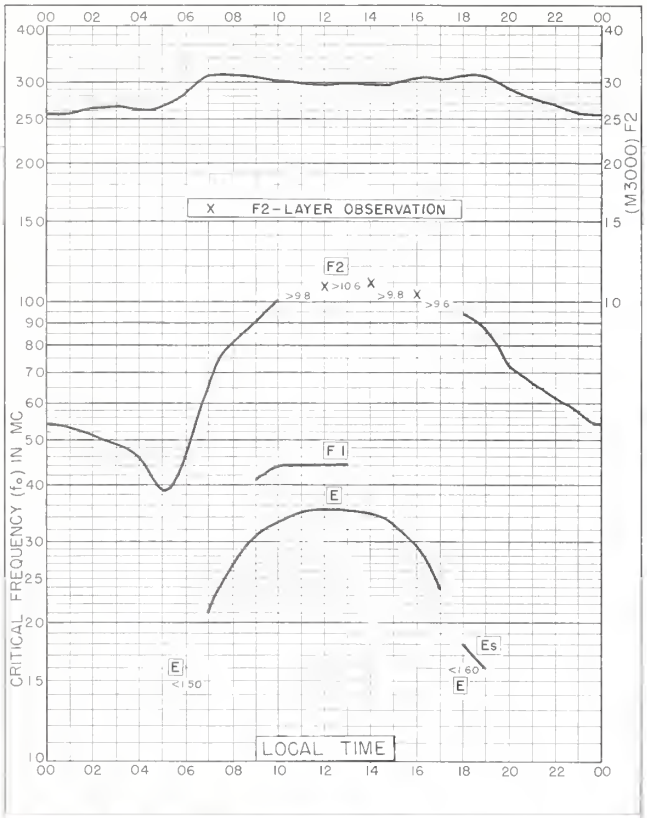

Fig. 89. FREIBURG, GERMANY
48.1°N, 7.8°E MARCH 1956

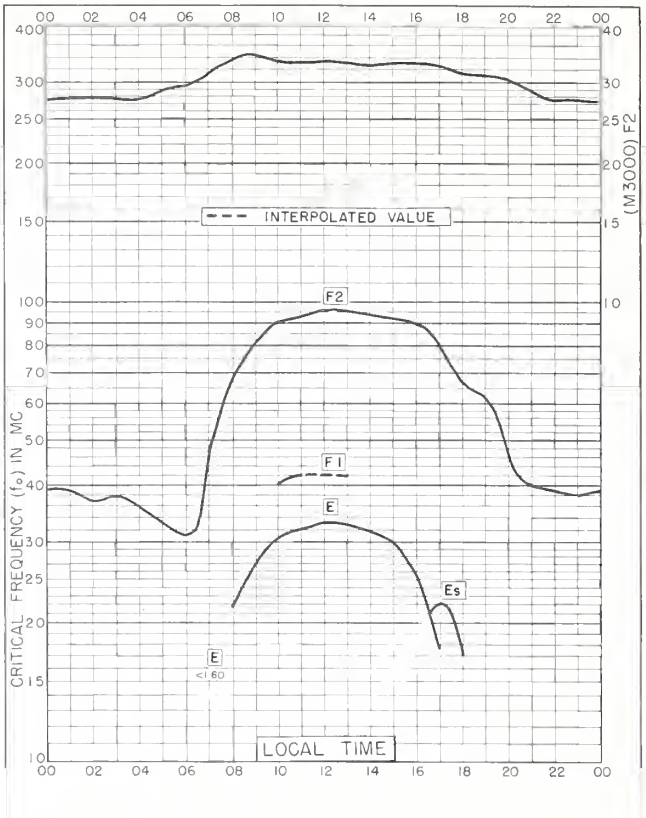

Fig. 90. FREIBURG, GERMANY
48.1°N, 7.8°E FERUARY 1956

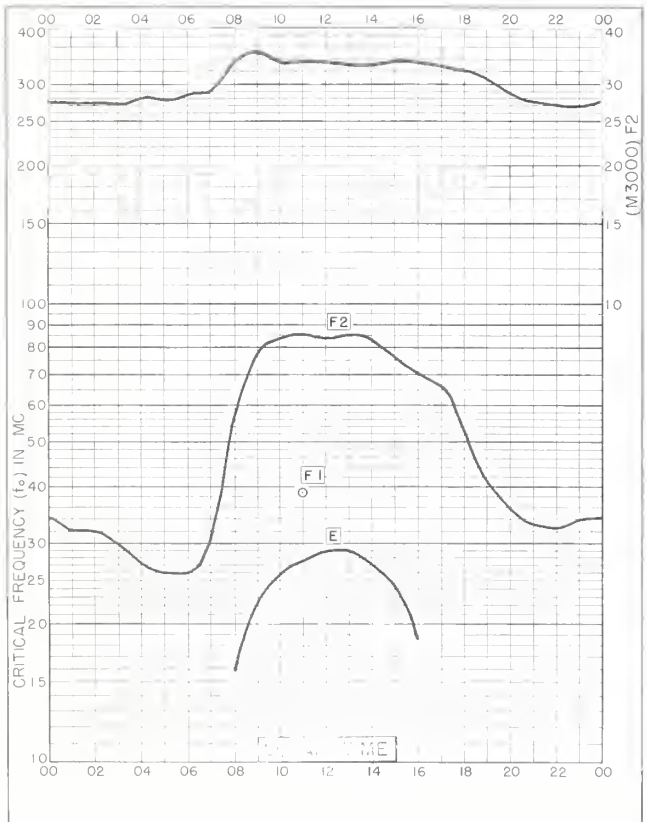

Fig. 91. FREIBURG, GERMANY
48.1°N, 7.8°E JANUARY 1956

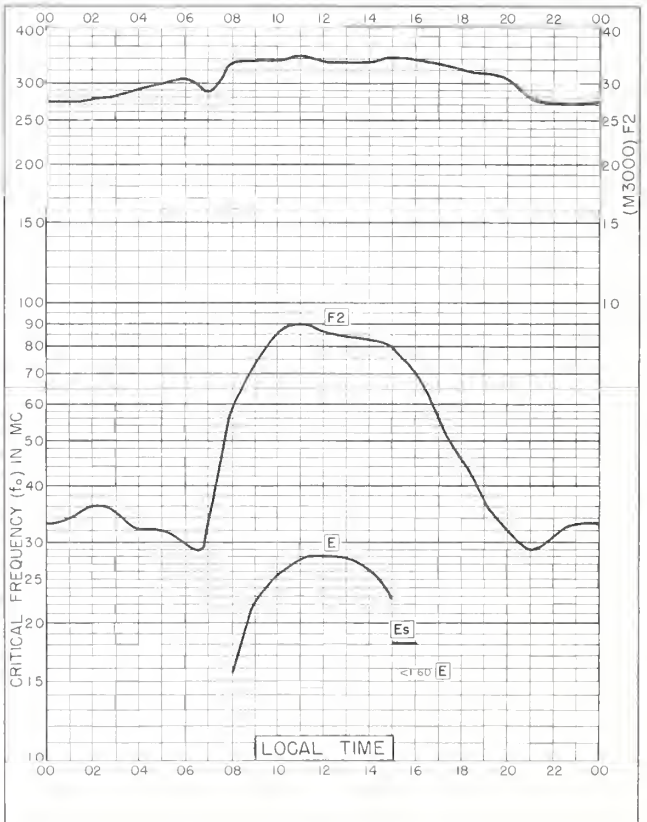

Fig. 92. FREIBURG, GERMANY
48.1°N, 7.8°E DECEMBER 1955

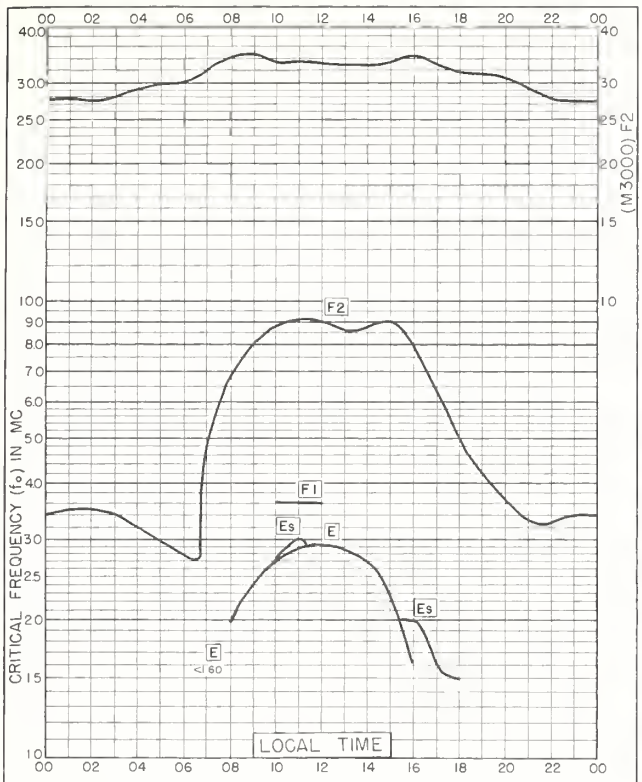

Fig. 93. FREIBURG, GERMANY
48.1°N, 7.8°E NOVEMBER 1955

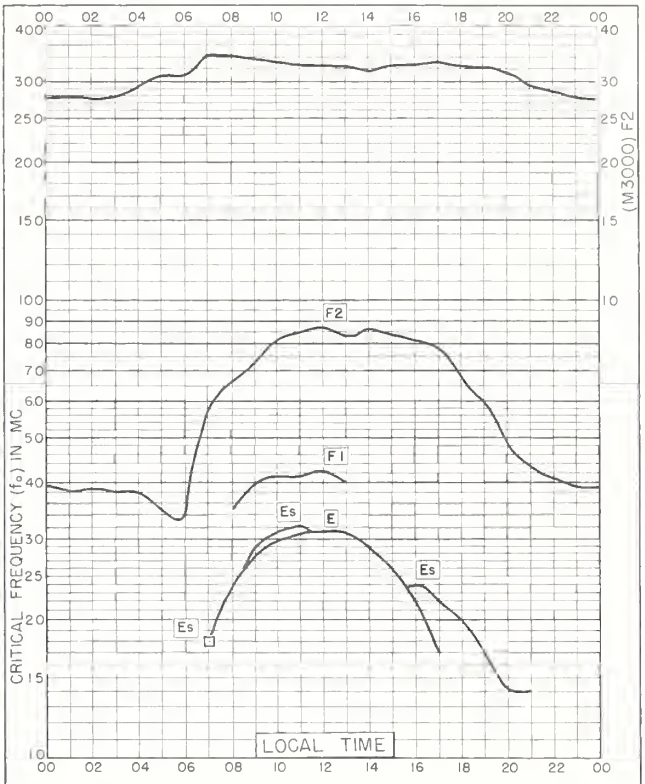

Fig. 94. FREIBURG, GERMANY
48.1°N, 7.8°E OCTOBER 1955

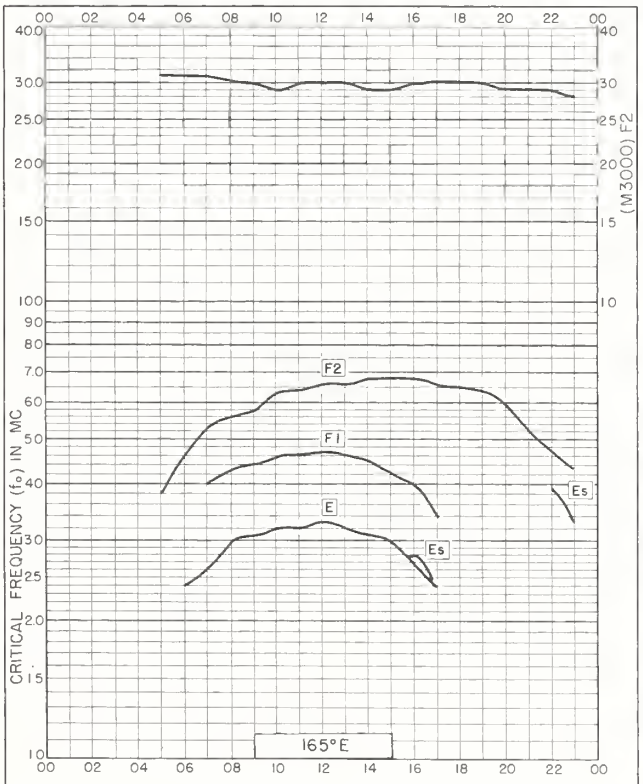

Fig. 95. CAMPBELL I.
52.5°S, 169.2°E OCTOBER 1955

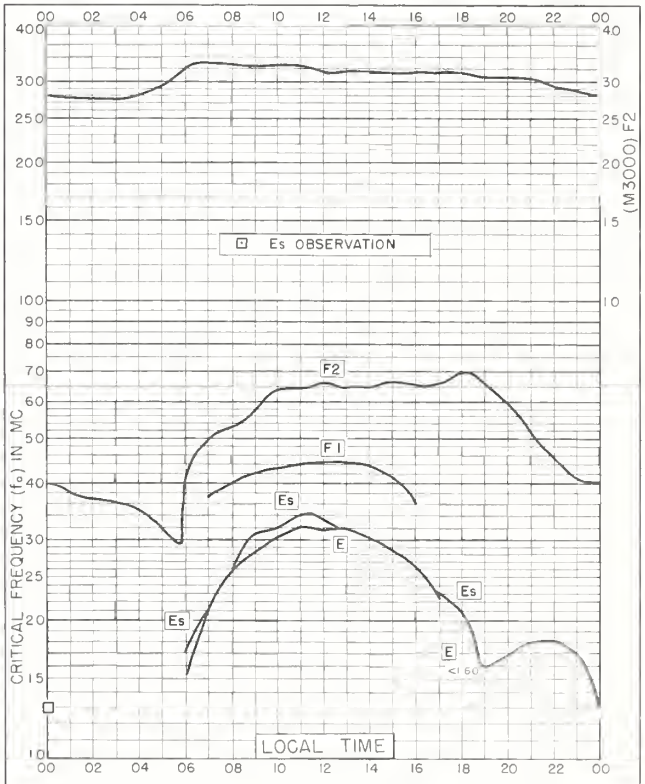

Fig. 96. FREIBURG, GERMANY
48.1°N, 7.8°E SEPTEMBER 1955

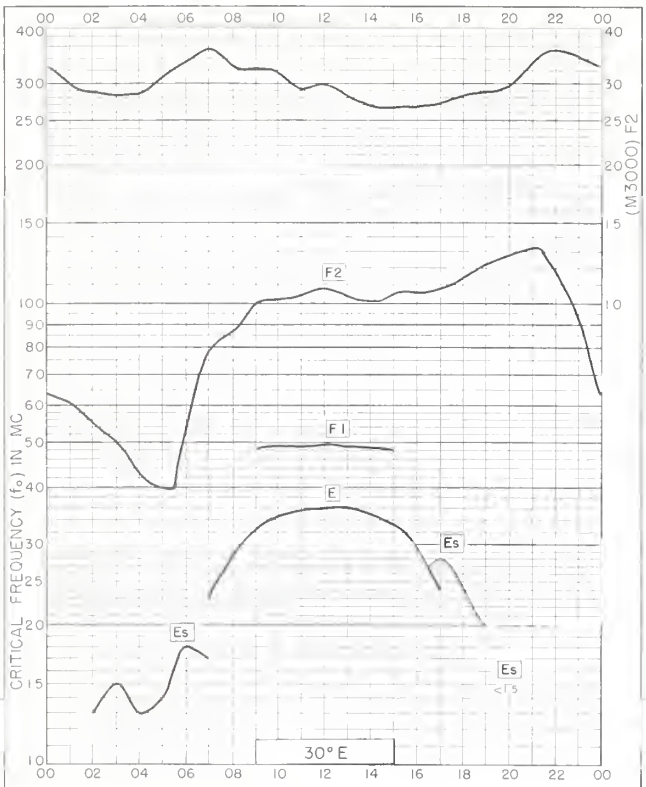

Fig. 97. LWIRO, CONGO
2.3°S, 28.8°E SEPTEMBER 1955

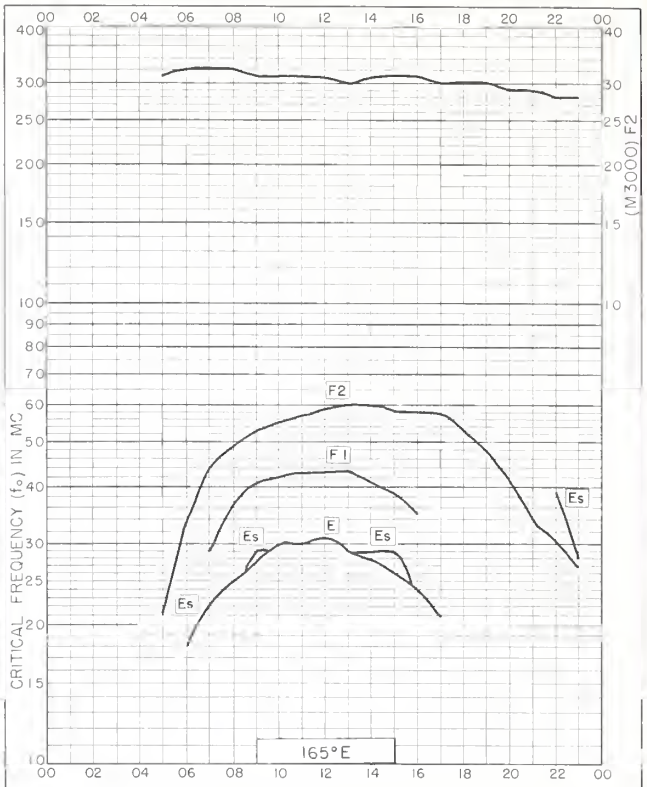

Fig. 98. CAMPBELL I.
52.5°S, 169.2°E SEPTEMBER 1955

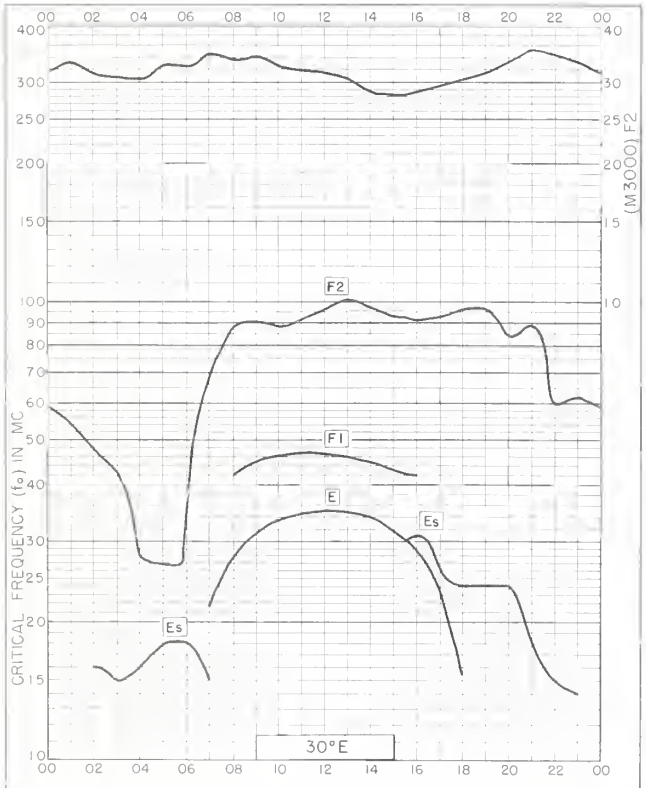

Fig. 99. LWIRO, CONGO
2.3°S, 28.8°E AUGUST 1955

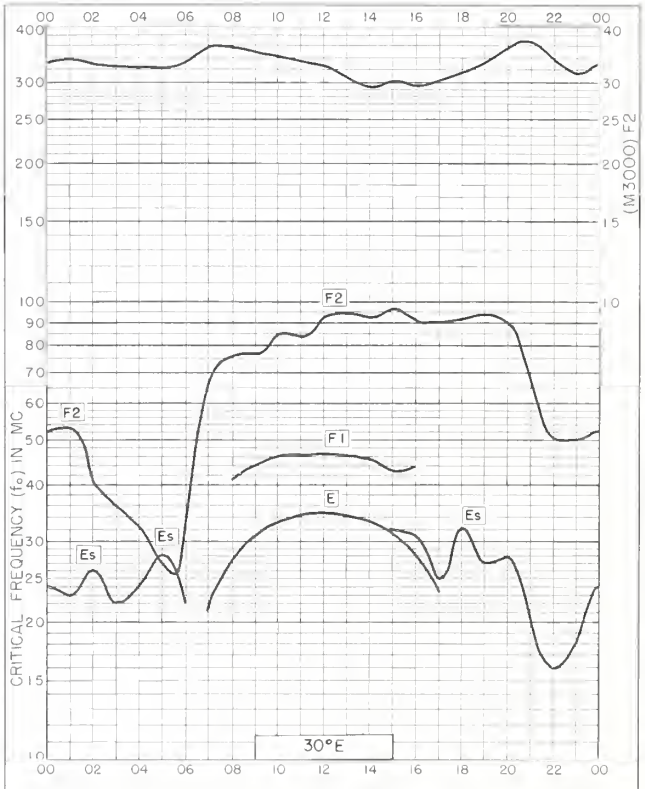

Fig. 100. LWIRO, CONGO
2.3°S, 28.8°E JULY 1955

Index of Tables and Graphs of Ionospheric Data in CRPL-F213 (Part A)

Index (CRPL-F213 (Part A), continued)

Index (CRPL-F213 (Part A), continued)

Index (CRPL-F213 (Part A), concluded)

CRPL Reports

[A detailed list of CRPL publications is available from the Central Radio Propagation Laboratory upon request]

Daily:

Radio disturbance forecasts, every half hour from broadcast stations WWV and WWVH of the National Bureau of Standards.

Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data.

Weekly:

CRPL—J. North Atlantic Radio Propagation Forecast.

CRPL—Jp. North Pacific Radio Propagation Forecast.

Semimonthly:

CRPL—Ja. Semimonthly Frequency Revision Factors For CRPL Basic Radio Propagation Prediction Reports.

Monthly:

CRPL—D. Basic Radio Propagation Predictions—Three months in advance. (Dept. of the Army, TB 11—499—, monthly supplements to TM 11—499; Dept. of the Air Force, TO 31—3—28 series). On sale by Superintendent of Documents. Members of the Armed Forces should address cognizant military office.

CRPL—F. (Part A). Ionospheric Data.
(Part B). Solar-Geophysical Data.
Limited distribution. These publications are in general disseminated only to those individuals or scientific organizations which collaborate in the exchange of ionospheric, solar, geomagnetic, or other radio propagation data.

Catalog of Data:

A catalog of records and data on file at the U. S. IGY World Data Center A for Airglow and Ionosphere, Boulder Laboratories, National Bureau of Standards, which includes a fee schedule to cover the cost of supplying copies, is available upon request.

The publications listed above may be obtained without charge from the Central Radio Propagation Laboratory, National Bureau of Standards, Boulder Laboratories, Boulder, Colorado, unless otherwise indicated. Please note that the F series is not generally available.

Circulars of the National Bureau of Standards pertaining to Radio Sky Wave Transmission:

NBS Circular 462. Ionospheric Radio Propagation. $1.25.

NBS Circular 465. Instructions for the Use of Basic Radio Propagation Predictions. 30 cents.

NBS Circular 557. Worldwide Radio Noise Levels Expected in the Frequency Band 10 Kilocycles to 100 megacycles. 30 cents.

NBS Circular 582. Worldwide Occurrence of Sporadic *E*. $3.25.

These Circulars are on sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Members of the Armed Forces should address the respective military office having cognizance of radio wave propagation.

Selected Technical Notes of the National Bureau of Standards:

NBS Tech. Note 2. PB151361. World Maps of F2 Critical Frequencies and Maximum Usable Frequency Factors. $3.50. PB151361–2. $3.50.

NBS Tech. Note 13. PB151372. Technical Considerations Leading to an Optimum Allocation of Radio Frequencies in the Band 25 to 60 Mc. $2.50.

NBS Tech. Note 18. PB151377. Radio Noise Data for the IGY. $2.50.
18–2. PB151377–2. Quarterly Radio Noise Data (Mar.-May 1959). $1.00.
18–3. PB151377–3. (June-Aug. 1959). $1.00.
18–4. PB151377–4, etc. (Sept.-Nov. 1959). $1.50.

NBS Tech. Note 31. PB151390. An Atlas of Oblique-Incidence Ionograms. $2.25.

NBS Tech. Note 40–1. PB151399–1. Mean Electron Density Variations of the Quiet Ionosphere, 1: March 1959. $1.25.
40–2. PB151399–2, etc. 2: April 1959. $1.25.

NBS Tech. Note 117. PB161618. Variations in Frequency of Occurrence of Sporadic E, 1949—1959. $0.75.

These Technical Notes are on sale by the Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C. Order by PB number.
